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2.3.3: Preparation and adherence of Academic Calendar and Teaching plans by the institution

LESSON PLAN
2023-2024

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**LT404A : TAMIL - IV**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.2. PURANAANOORU - 184, 204 1.2. AGANAANOORU - 219, 351
2	1	1.3. KURUNTHOGAI - 20,210 1.4. NATRINAI - 21, 86
3	1	1.5. INGURUNOORU - ANNAI VAZHI PATHU (1-5) 1.6. KALITHOGAI - KURINCHIKALI (40)
4	1	1.7. PARIPAADAL
5	3	3.1. ARATHU PAADAL - VIRUNTHOMPAL
6	3	3.2. PORUTPAAL - KALLAMAI
7	3	3.3. ENPATHUPAAL - KURIPARITHAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	4.1. ETTUTHOGAI
9	4	4.3. PATHINEN KEEZH KANAKIL NEETHI NOOGAL
10	2	2.1. SIRUPANAATRU PADAI - 111-145, 235-261 (NALLIYAK KODANIN SIRAPU)
11	2	2.2. MULLAIPAATTU - 26-79 VARIGAL
12	2	2.3. MATHURAI KAANCHI - 238-270 (PAANDIYANIN IVAI NILATHIL AMAINTHA PANPUM VALAMUM)
13	2	2.4. PATTINAPAALAI - 1-59 (KAAVERI POOMPATTINATHIN SIRPU)
14	5	4.2. PATHTHUPATU 5.1. PATHIRIGAIGALIL SEITHI VARAITHAL
15	5	5. 2. SURUKI VARAITHAL 5.3. NERKAANAL

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**2**
Subject	**EPDT201A : DYNAMICS OF PERSONALITY**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AALUMAI PAREMANANGAL - UYIREYAL KARANIGAL
2	1	UADALIYAL SOOZHAL, ULAVIYAL KARANIGAL, THARKARUTHU
3	1	PANPATTUK KAARANIGAL, AALUMAIYAI MEMBADUTHUM VAZHIKKATTU NEREMURAIGAL
4	2	MURPOKKU SAMOOGA NADATHAIGAL- AREMUGAM, SAMOOGANADATHAIYUM MANITHANEYA KAVALARUM
5	2	AVASARAKALAM KURITHA VILAKKAM, UTHAVIKANA NADATHAIGALAI PATHIKKUM KAARANIGAL,
6	2	NERMARAI ENNANGALIN THAKKAM, SAMOOGA KATTRAL KOLGAI, MAGIZHCHISAR ANUMANAM, PARASPARAM MATTRUM SAMOOGA NADATHAIGAL
7	3	MANANALAM - MANA NALATHIN IYEYALBUGAL, MANA NALATHIRKANA KAARANIGAL,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	MANA NALATHIRKANA KOORUGAL- SOOZHAL MEMBADU, SUYAMAREYATHAI, SUYA AALUMAI
9	3	VAZHVIN PORUL THEDAL, MANA NALATHIRKKANA VAZHIMURAIGAL
10	4	OOKKAM - OOKKATHIN SIRAPPIYALPUGAL, OOKKATHIRKANA THOTTRUVAI, VAGAIPPADUGAL
11	4	OOKKAM KURITHA KOTTPAADUGAL - PORULADAKKA KOTTPADU, MASLOWVIN ADIPPADAI KOTTPADU, KARANAM KATTAL KOTPADU
12	4	IYLAKKU NIRNAYITHAL KOTTPADU, OOKKAM PAYANPADUGAL, OOKKATHIRKKANA KAARANAM, NINAIVIL NIRUTHAVENDIYAVAI
13	5	AALUMAIYAI ALAVIDAL - NERMUGAM, NERKANAL, NADATHAIYAI ALAVIDAL
14	5	AALUMAI PATTIYALGAL, PURATHETTRU NUNMURAIGAL, ROERSHAKKIN MAITHADA SOTHANAI,,PORULAREVODU INNAITHARE SOTHANAI
15	5	VAARTHAI INNAIPPU SOTHANAI, AALUMAI ALAVIDALIN PAYANPADUGAL

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**2**
Subject	**EFE202 : EFFECTIVE ENGLISH**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BREAKING THE ICE GREETING THE PEOPLE DISCUSSING CURRENT EVENTS TALKING ABOUT DIFFERENT SITUATIONS
2	1	TALKING ABOUT EVENTS IN LIFE DISCUSSING PAST EVENTS TALKING ABOUT EDUCATION
3	1	ACHIEVEMENT- TALKING ABOUT EXPERIENCES DISCUSSING PROGRESS TOWARDGOALS TALKING ABOUT COMPETITION
4	2	NEWS- NEWS STORIES RECENT EVENTS TALKING ABOUT MEMORIES
5	2	VIRTUAL WORLD- DISCUSSING.. PURPOSES AND REASONS UNDERSTANDING COMMON TECHNOLOGY TERMS WRITING EMAILS
6	2	ON THE MOVE -DISCUSSING TRAVEL PROCEDURES TALKING ABOUT FREQUENCY TALKING ABOUT TRAVEL PROBLEMS
7	3	PLANNING.. MAKING ARRANGEMENTS DESCRIBING ARRANGEMENTS PLANS AND DECISIONS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PREDICTIONS- DISCUSSING PREDICITIONS DISCRIBING THE CLIMATE FORECASTS AND SCENARIOUS
9	3	BUYING AND SELLING TALKING ABOUT PURCHASING ADVANTAGES AND DISADVANTAGES MAKING COMPARISONS
10	4	LEISURE TIME - TALKING ABOUT LEISURE DISCUSSING LIKES AND DISLIKES DISCUSSING FEELINGS ABOUT EXPERIENCES
11	4	LIFESTYLE - TALKING ABOUT TIME GIVING ADVICE DISCUSSING IMAGINARY SCENARIOS
12	4	FORCES OF NATURE- DISCUSSING THE NATURAL ENVIRONMENT DESCRIBING SYSTEMS DESCRIBING POSITION AND MOVEMENT
13	5	ON THE ROAD- TALKING ABOUT CARS AND ROADS EXPLAINING RULES DISCUSSING RENTAL ARRANGEMENTS
14	5	FASHION SENSE- DESCRIBING THINGS RELATIVELY DESCRIBING CLOTHING DISCUSSING SAFETY ISSUES
15	5	IN CONTROL - TALKING ABOUT ELECTRICAL DEVICES UNDERSTANDING TECHNICAL INSTRUCTIONS DESCRIBING CONTROLLING ACTIONS

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**2**
Subject	**ATA202B : SUTRULAVIYAL**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SUTTRULA ORU VILAKKAM, ULAGANADUGALIL SUTTRULA VALARCHI
2	1	BHARATHATHIL SUTTRULA VALARCHI
3	1	THAMIZHNATTIL SUTTRULA VALARCHI
4	2	PANNATTU PALAVAGAI PAYANIGAL
5	2	SUTTRULAVIN SAMOOGA PORULATHARA VILAIVUGAL
6	2	SUTTRULA PAYANIGAL PATTRIYA PULLIVIVARANGAL
7	3	SUTTRULAVAI THITTAMIDUTHALUM MEMPADUTHUTHALUM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	SUTTRULA VIDUTHIGAL
9	3	SUTTRULA PAYANIGALIN PALVERU POKKUVARATHUGAL
10	4	SUTTRULA KAZHAGANGAL
11	4	SUTTRULA PAYANA MUGAVARGAL
12	4	SUTTRULAVIN VANIGA SANTHAIGAL
13	5	SUTTRULAVIN VAZHIGATTIGAL
14	5	THAMIZH ILAKKIYATHIL PAYANA NOOLGAL
15	5	PAYANA ILLAKKIYA VAGAIGAL

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**3**
Subject	**19TA306 : YAPARUNGALAKARIGAI**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THARSIRAPPU PAAYIRAM
2	1	URUPPIYAL - EZHUTHU, ASAI, SEER
3	2	URUPPIYAL - THALAI, ADI, THODAI
4	2	URUPPIYAL - PAYIRCHIGAL
5	3	SEIYULIYAL - PAA VAGAIGAL
6	3	SEIYULIYAL - VENNPAA VAGAIGAL, POTHU ILLAKKANAM, VENNPAA YENANGAL
7	3	SEIYULIYAL - AASEREYAPAA POTHU ILLAKKANAM, VAGAIGAL, AASEREYAPAA YENANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	SEIYULIYAL - KALIPPAA POTHU ILLAKKANAM, VAGAIGAL, KALIPPAA YENANGAL
9	4	SEIYULIYAL - KALIPPAA POTHU ILLAKKANAM, VAGAIGAL, KALIPPAA YENANGAL
10	5	SEIYULIYAL - VANCHIPPAA POTHU ILLAKKANAM,
11	5	SEIYULIYAL - VANCHIPPAA VAGAIGAL, VANCHIPPAA YENANGAL
12	5	SEIYULIYAL - MARUTTPPAA VAGAIGAL
13	5	MARUTTPPAAVIN PURANILAI VAZHTHU, KAIKKILAI
14	5	YAAPPURUPPU PATTREYA KARUTHUKKAL
15	5	ENN VAGAI VANAPPUM ONPATHU VIGAARANGAL

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**4**
Subject	**19TA408 : TAMIL ILAKIYA VARALARU**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SANGA KALAM -THAMIZH MOZHIYIN PAZHAMAYUM SIRAPPUM-MOONDRU SANGANGAL- THOLGAPPIYAM AMAIPPU
2	1	SANGA ILAKKIYANGAL- ETTUTHOGAI NOOLGAL, PATHUPPATTU NOOLGAL
3	1	SANGAM MARUVIYA KAALAM - PARHINENKZHKANAKKU NOOLGAL- IRETTAIKKAPPIYANGAL
4	2	PALLAVAR KAALAM - PAKTHI ILLAKKIYANGAL- SAIVAM, VAINAVAM
5	2	SOZHARKAALAM - KAAPPIYA ILLAKKANAM, IYMPERUM KAAPPIYANGAL, IYNCHIRU KAAPPIYANGAL, ILLAKKANA NOOLGAL
6	2	NAYAKARKAALAM, -SITRELAKKIYANGAL THOTTRAMUM VALARCHIYUM
7	3	SAMAYAM VALARTHA THAMIZH- SAMANAMUM THAMIZHUM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	BOWTHAMUM THZMIZHUM
9	3	MUGAMATHIYAMUM THAMIZHUM
10	4	IROPPIYARKAALAM - KIRUSTHUVAMUM THAMIZHUM
11	4	THAMIZHIL URAINADAI VALARCHI- URAIAASIREYARGAL,- THAMIZHIL SIRUKATHAI VALARCHI
12	4	THAMIZHIL NAVAL ILLAKKIYANGAL, NADAGATHAMIZH VALARCHI VARALARU
13	5	IRUBATHAM NOOTTRANDU KAVINGHERGAL- PUTHUKAVITHAI THOTTRAMUM VALARCHIYUM
14	5	KURUMPAA, NAATTUPPURA ILAKKIYANGAL
15	5	INNAYA THAMIZH, ITHGAZHIYAL THOTTRAMUM VALARCHIYUM, THAGAVAL THODARBU SATHANANGAL, ISAITHAMIZH VALARCHI

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**6**
Subject	**19TA614 : PURAPORUL VENBAMALAI**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VETCHI PADALAM
2	1	VETCHI PADALAM
3	1	KARANTHAI PADALAM
4	2	VANCHI PADALAM
5	2	VANCHI PADALAM KANCHI PADALAM
6	2	KANCHI PADALAM
7	3	NOCHI PADALAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	NOCHI PADALAM VOOZHINCHAI PADALAM
9	3	VOOZHINCHAI PADALAM
10	4	THUMPAI PADALAM
11	4	THUMPAI PADALAM VAAGAI PADALAM
12	4	VAAGAI PADALAM
13	5	PAADAAN PADALAM
14	5	PAADAAN PADALAM POTHUVIYAL PADALAM
15	5	POTHUVIYAL PADALAM

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**6**
Subject	**TA615A : SANGA ILAKKIAM**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	NATRINAI - 21, 25, 28.30.54
2	1	KURUNTHOGAI - 7,10,40,51,110
3	2	INGURUNOORU - ANNAAI VAAZHI PATHU
4	2	KALITHOGAI - 101,102,103
5	2	KALITHOGAI - 104,105 AGANANOORU - 136
6	2	AGANANOORU - 137, 138, 139, 140
7	3	PURANAANOORU - 212, 214, 215, 216,221

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PATHITRUPATHU - 2 AAM PATHU 5 THALAIPUGAL
9	3	PARIPAADAL - 10 VATHU PAADAL (1 MUDAL 70 VARIGA;)
10	4	PORUNAR AATRUPADAI - 129-170 VARIGAL
11	4	PORUNAR AATRUPADAI - 171-190 VARIGAL PERUMANAATRUPADAI - 441-450 VARIGAL
12	4	PERUMANAATRUPADAI - 450-480
13	5	KURINCHIPAATTU - 101-150
14	5	KURINCHIPAATTU - 151-201
15	5	KURINCHIPAATTU - 202-261

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**5**
Subject	**19TA511 : KALVETYALIM SUVADIYALUM**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SUVADEYEYAL - VILLAKKAM - SORPOURUL - SUVADEPAYIRCHIGALIN INDREYAMAIYAMAI
2	1	SUVADEGALIN THOTRAMUM VALARCHIYUM - INDRAYA NILAI
3	1	SUVADEGALAI PAATHUKAKUM MURAIGAL - PATHIPPIKKUM MURAIGAL
4	2	SUVADEGALIN AGA AMAIPPUM PURA AMAIPPUM
5	2	SUVADEGALIN VAGAIGAL - OLAI SUVADEGAL
6	2	THAAL SUVADEGAL - KAIYEZHUTHU SUVADEGAL
7	3	SUVADEGALIN EZHUTHUMURAI - VAREE VADEVAM - THIREBUM THERIVUM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	UYIR MEI EZHUTHUKKAL - VAREVADEVAMAIPPU - AVATTRIKKANA KARANANGAL- PADEYEDUTHAL
9	4	SUVADEGALAI THIRATTUTHAL - SUVADE PATHIPPUMURAI
10	4	MOOLAPAADAM - MOOLAPAADA AAYVU MURAI - PADEYEDUTHAL
11	4	OPPEEDEU - MEETTURUVAAKKAM SEITHAL - PATHIPPITHAL
12	5	KALVEETTIYAL - THOLLEZHUTHIYAL - THAMIZHI EZHUTHU - VATTEZHUTHU - GRANTHA EZHUTHU - PIRA EZHUTHUKKAL
13	5	KALVETTU THOTTRAMUM VALARCHIYUM - KALVETTIN AMAIPPU - VAGAIGAL
14	5	KALVETTUM ARASARGALUM - MEIKEERTEGAL - NADUKAL VAZHIPAADU
15	5	KOYIL KALAIGAL - SEPPEDUGAL - KALAPPANI AAYVU

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**21LTC02 : TAMIL - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI NOOLGAL- PURANANOORU 50, 182 AGANANOORU 105, 154 PADALGAL
2	1	KURUNTHOGAI 25, 53 NATTRENAI 01, 172 PADALGAL
3	1	KALITHOGAI 111, 133 PADALGAL
4	2	PATHUPPATTU NOOLGAL - NEDUNALVAADAI 1-63 VAREGAL
5	2	PORUNARATTRUPPADAI 48- 78 VAREGAL MADURAIKANCHI 500- 526 VAREGAL
6	2	MULLAIPPATTU 24- 79 VAREGAL
7	3	THIRUKKURAL- KOODA OZHUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THIRUKKURAL - AAVAIYARETHAL
9	3	THIRUKKURAL - PERIYARAI THUNAIKODAL
10	4	ILAKKIYA VARALARU - ETTUTHOGAI NOOLGAL - SANGAILAKKIYAM
11	4	PATHUPPATTU NOOLGAL-SANGA ILLAKIYAM
12	4	SANGAM MARUVIYA ILAKKIYAM-PATHINENKEZHKANAKKU NOOLGALIL NEETHI NOOLGAL
13	5	MOZHITHIRAN PAGUTHI - KADITHANGAL , NERKAANAL
14	5	PANBALAI VANOLI NIGAZHCHI THOGUPPU
15	5	VAADIKKAIYALAR SEVAI MAIYAM

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**LT101A : TAMIL - I**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THAMIZH ILLAKKANA NOOLGAL - THOLKKAPPIYAM, NANNOOL, NAMBIYAGAP PORUL, THANDEYALANGARAM, PURAPPORUL VENNBAMALAI
2	1	MOZHI PAYIRCHI - OTTRUPIZHAI THAVIRTHAL, VALLINAM MIGUM IYEDANGAL
3	1	VALLINAM MIGUM IYEDANGAL, YEER OTTRU VARUM YEDANGAL, ORU OOR VARUM IYEDANGAL, ATHU AGTHU VARUM IYEDANGAL, THAAN THAAM VARUM IYEDANGAL
4	2	SANGA ILLAKKIYANGAL - NATTRENAI, KURUNTHOGAI
5	2	IYENGURUNOORU, KALITHOGAI , PUREANAANOORU, PATHUPPAATTIL MULLAI PAATTU
6	3	AARA ILLAKKIYANGAL - THIRUKKURAL-ARAN VALIYURUTHAL, NAALADEYAR, NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU
7	3	NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	KAAPIYANGAL -SILAMBU- VAZHAKKURAI KAATHAI,
9	4	MANIMEGALAI - PATHIRAM PETRA KAATHAI, PEREYAPURANAM- POOSALAR NAYANAR PURANAM
10	4	SEERAPURANAM - MAANUKKU PINAI NINDRA PADALAM
11	4	KAMBARAMAYANAM - GUGAPADALAM, YESUKAAVIYAM- OOTHAREE MAINTHAN UVAMAI
12	5	PAKKTHI ILLAKKIYANGAL - THIRUNAVUKARASAR THEVARAM, MAANIKAVASAGAR THIRUVASAGAM, MUTHAL AAZHVARGAL PAADALGAL
13	5	AANDAL THIRUPPAAVAI ,MUTHAL AAZHVARGAL PAADALGAL
14	5	PAGUTHAREVU ILLAKKIYANGAL - THIRUMOOLAR THIRUMANTHIRAM, PATTINATHAAR PAADALGAL
15	5	KADUVELI SITHAR PAADALGAL, RAVANA KAAVIYAM

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**21LT02 : TAMIL - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKKTHI ILLAKKIYAM- VALLALARIN THIRUARULKODAI 2PADALGAL THIRUGANASAMBANTHARUN MUTHAL THIRUMURAI 3 PADALGAL THIRUAALAVAI
2	1	PERIYAZHVARIN THIRUPPALLANDU, NAMAZHVARIN - THIRUVAIMOZHI-10
3	1	VANNAKALANCHIYA PULAVARIN KUTHPUNAYAGA PURANAM-THEENVILAKKAM VETHANAYAGAM PILLAIYIN NEETHI NOOL
4	2	SITTRELAKKIYANGAL- SIDDAR ILAKKIYANGAL, SOKKANATHARIN KILLAIVIDU THOOTHU PAGAZHI KOOTHARIN THIRUSENTHOOR MURUGAN PILLAITHAMIZH
5	2	KUMARAKURUBARAR- MADURAI MEENATCHIYAMMAIYIN RETTAIMANIMALAI ARUNAGIRENATHAR THIRUPUGAZH,
6	2	PATTINATHAR- THIRUTHILLAI 10 PADALGAL SIVA VAAKKIYAR
7	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 1-8

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 9-16
9	4	ILAKKIYA CVARALARU - PALLAVAR KALAM THOTRAMUM VALARCHIYUM
10	4	NAYAKKAR KALAM THOTTRAMUM VALARCHIYUM SIDDAR ILLAKKIYAM THOTTRAMUM VALARCHIUM
11	4	URAINADAI THOTTRAMUM VALARCHIUM
12	5	ILLAKKANAM - YAPPILAKKANAM, YAPPIN URUPPUGAL
13	5	ANIILAKKANAM - VETTRUPPOURUL VAIPPANI,
14	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU
15	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**21LT02 : TAMIL - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKKTHI ILLAKKIYAM- VALLALARIN THIRUARULKODAI 2PADALGAL THIRUGANASAMBANTHARUN MUTHAL THIRUMURAI 3 PADALGAL THIRUAALAVAI
2	1	PERIYAZHVARIN THIRUPPALLANDU, NAMAZHVARIN - THIRUVAIMOZHI-10
3	1	VANNAKALANCHIYA PULAVARIN KUTHPUNAYAGA PURANAM-THEENVILAKKAM VETHANAYAGAM PILLAIYIN NEETHI NOOL
4	2	SITTRELAKKIYANGAL- SIDDAR ILAKKIYANGAL, SOKKANATHARIN KILLAIVIDU THOOTHU PAGAZHI KOOTHARIN THIRUSENTHOOR MURUGAN PILLAITHAMIZH
5	2	KUMARAKURUBARAR- MADURAI MEENATCHIYAMMAIYIN RETTAIMANIMALAI ARUNAGIRENATHAR THIRUPUGAZH,
6	2	PATTINATHAR- THIRUTHILLAI 10 PADALGAL SIVA VAAKKIYAR
7	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 1-8

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 9-16
9	4	ILAKKIYA CVARALARU - PALLAVAR KALAM THOTRAMUM VALARCHIYUM
10	4	NAYAKKAR KALAM THOTTRAMUM VALARCHIYUM SIDDAR ILLAKKIYAM THOTTRAMUM VALARCHIUM
11	4	URAINADAI THOTTRAMUM VALARCHIUM
12	5	ILLAKKANAM - YAPPILAKKANAM, YAPPIN URUPPUGAL
13	5	ANIILAKKANAM - VETTRUPPOURUL VAIPPANI,
14	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU
15	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**21LTC02 : TAMIL - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI NOOLGAL- PURANANOORU 50, 182 AGANANOORU 105, 154 PADALGAL
2	1	KURUNTHOGAI 25, 53 NATTRENAI 01, 172 PADALGAL
3	1	KALITHOGAI 111, 133 PADALGAL
4	2	PATHUPPATTU NOOLGAL - NEDUNALVAADAI 1-63 VAREGAL
5	2	PORUNARATTRUPPADAI 48- 78 VAREGAL MADURAIKANCHI 500- 526 VAREGAL
6	2	MULLAIPPATTU 24- 79 VAREGAL
7	3	THIRUKKURAL- KOODA OZHUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THIRUKKURAL - AAVAIYARETHAL
9	3	THIRUKKURAL - PERIYARAI THUNAIKODAL
10	4	ILAKKIYA VARALARU - ETTUTHOGAI NOOLGAL - SANGAILAKKIYAM
11	4	PATHUPPATTU NOOLGAL-SANGA ILLAKIYAM
12	4	SANGAM MARUVIYA ILAKKIYAM-PATHINENKEZHKANAKKU NOOLGALIL NEETHI NOOLGAL
13	5	MOZHITHIRAN PAGUTHI - KADITHANGAL , NERKAANAL
14	5	PANBALAI VANOLI NIGAZHCHI THOGUPPU
15	5	VAADIKKAIYALAR SEVAI MAIYAM

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**LT101A : TAMIL - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THAMIZH ILLAKKANA NOOLGAL - THOLKKAPPIYAM, NANNOOL, NAMBIYAGAP PORUL, THANDEYALANGARAM, PURAPPORUL VENNBAMALAI
2	1	MOZHI PAYIRCHI - OTTRUPIZHAI THAVIRTHAL, VALLINAM MIGUM IYEDANGAL
3	1	VALLINAM MIGUM IYEDANGAL, YEER OTTRU VARUM YEDANGAL, ORU OOR VARUM IYEDANGAL, ATHU AGTHU VARUM IYEDANGAL, THAAN THAAM VARUM IYEDANGAL
4	2	SANGA ILLAKKIYANGAL - NATTRENAI, KURUNTHOGAI
5	2	IYENGURUNOORU, KALITHOGAI , PUREANAANOORU, PATHUPPAATTIL MULLAI PAATTU
6	3	AARA ILLAKKIYANGAL - THIRUKKURAL-ARAN VALIYURUTHAL, NAALADEYAR, NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU
7	3	NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	KAAPIYANGAL -SILAMBU- VAZHAKKURAI KAATHAI,
9	4	MANIMEGALAI - PATHIRAM PETRA KAATHAI, PEREYAPURANAM- POOSALAR NAYANAR PURANAM
10	4	SEERAPURANAM - MAANUKKU PINAI NINDRA PADALAM
11	4	KAMBARAMAYANAM - GUGAPADALAM, YESUKAAVIYAM- OOTHAREE MAINTHAN UVAMAI
12	5	PAKKTHI ILLAKKIYANGAL - THIRUNAVUKARASAR THEVARAM, MAANIKAVASAGAR THIRUVASAGAM, MUTHAL AAZHVARGAL PAADALGAL
13	5	AANDAL THIRUPPAAVAI ,MUTHAL AAZHVARGAL PAADALGAL
14	5	PAGUTHAREVU ILLAKKIYANGAL - THIRUMOOLAR THIRUMANTHIRAM, PATTINATHAAR PAADALGAL
15	5	KADUVELI SITHAR PAADALGAL, RAVANA KAAVIYAM

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**LTC303A : TAMIL - III**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	KAAPPIYANGAL - SILAPPATHIGARAM - AADAIKKALA KAATHAI
2	1	MANIMEGALAI - UTHAYANAKUMARANAI KANCHANAN VAALALERINTHA KAATHAI
3	2	SEEVAGA SINTHAMANI - NAAMAGAL ILLAMBAGAM NATTUVALAM
4	2	KAMBARAMAYANAM - MANTHARAI SOOZHCHI PADALAM
5	3	PERIYA PURANAM - IYLAIYANKUDI MARANAYANAR PURANAM
6	3	SEERAP PURANAM - GAAMAAP PADALAM
7	3	THEMBAAVANI - MUDESOOTTU PADALAM - SOOSAI PETTRA EZHUVARANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	ILLAKKIYA VARALARU - IYEMPERUM KAAPPIYANGAL, IYENCHIRUKKAAPIYANGAL
9	4	KIRUTHUVA ILLAKKIYANGAL
10	4	ISLAMIYA ILLAKKIYANGAL
11	5	MOZHITHIRAN - EZHUTHUPIZHAI NEEKKAM
12	5	IYENAYA PAYANPAADUGAL
13	5	PANDAIYA THAMIZHAR NAAGAREEGAMUM PANPAADUM
14	5	PANDAIYA THAMIZHAR NAAGAREEGAMUM PANPAADUM
15	5	KALAISOLLAAKKAM

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM511Q : COST ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning of cost and costing - Cost accounting –Meaning, Importance and objectives - Cost accountings Vs. Financial Accounting and its Reconciliation of Cost – costing methods.
2	1	Preparation of Cost sheet – meaning and purpose of cost sheet – cost sheet with details of overheads, stocks of work in progress and finished goods and sales price computation – problems – revision.
3	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques – Stock levels and EOQ.
4	2	Methods of pricing material issues – FIFO – LIFO – HIFO - problems.
5	2	Labour costing and control - Labour turn over – idle time-over time-remuneration-time rate and piece rate – problems.
6	2	Incentive system - Halsey and Rowan plans – problems - revision.
7	3	Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Process costing - Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages.
11	4	Simple process accounts - treatment of normal loss, abnormal loss and abnormal gain – problems.
12	4	Joint and by -products costing –problems under reverse cost method - revision.
13	5	Contract costing - meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing,
14	5	Simple finished contracts – transfer to profit and loss account - profit on incomplete contracts – Problems - revision.
15	5	Revision of 4th & 5th units.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM511Q : COST ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning of cost and costing - Cost accounting –Meaning, Importance and objectives - Cost accountings Vs. Financial Accounting and its Reconciliation of Cost – costing methods.
2	1	Preparation of Cost sheet – meaning and purpose of cost sheet – cost sheet with details of overheads, stocks of work in progress and finished goods and sales price computation – problems – revision.
3	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques – Stock levels and EOQ.
4	2	Methods of pricing material issues – FIFO – LIFO – HIFO - problems.
5	2	Labour costing and control - Labour turn over – idle time-over time-remuneration-time rate and piece rate – problems.
6	2	Incentive system - Halsey and Rowan plans – problems - revision.
7	3	Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Process costing - Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages.
11	4	Simple process accounts - treatment of normal loss, abnormal loss and abnormal gain – problems.
12	4	Joint and by -products costing –problems under reverse cost method - revision.
13	5	Contract costing - meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing,
14	5	Simple finished contracts – transfer to profit and loss account - profit on incomplete contracts – Problems - revision.
15	5	Revision of 4th & 5th units.

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101A : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THAMIZH ILLAKKANA NOOLGAL - THOLKKAPPIYAM, NANNOOL, NAMBIYAGAP PORUL, THANDEYALANGARAM, PURAPPORUL VENNBAMALAI
2	1	MOZHI PAYIRCHI - OTTRUPIZHAI THAVIRTHAL, VALLINAM MIGUM IYEDANGAL
3	1	VALLINAM MIGUM IYEDANGAL, YEER OTTRU VARUM YEDANGAL, ORU OOR VARUM IYEDANGAL, ATHU AGTHU VARUM IYEDANGAL, THAAN THAAM VARUM IYEDANGAL
4	2	SANGA ILLAKKIYANGAL - NATTRENAI, KURUNTHOGAI
5	2	IYENGURUNOORU, KALITHOGAI , PUREANAANOORU, PATHUPPAATTIL MULLAI PAATTU
6	3	AARA ILLAKKIYANGAL - THIRUKKURAL-ARAN VALIYURUTHAL, NAALADEYAR, NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU
7	3	NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	KAAPIYANGAL -SILAMBU- VAZHAKKURAI KAATHAI,
9	4	MANIMEGALAI - PATHIRAM PETRA KAATHAI, PEREYAPURANAM- POOSALAR NAYANAR PURANAM
10	4	SEERAPURANAM - MAANUKKU PINAI NINDRA PADALAM
11	4	KAMBARAMAYANAM - GUGAPADALAM, YESUKAAVIYAM- OOTHAREE MAINTHAN UVAMAI
12	5	PAKKTHI ILLAKKIYANGAL - THIRUNAVUKARASAR THEVARAM, MAANIKAVASAGAR THIRUVASAGAM, MUTHAL AAZHVARGAL PAADALGAL
13	5	AANDAL THIRUPPAAVAI ,MUTHAL AAZHVARGAL PAADALGAL
14	5	PAGUTHAREVU ILLAKKIYANGAL - THIRUMOOLAR THIRUMANTHIRAM, PATTINATHAAR PAADALGAL
15	5	KADUVELI SITHAR PAADALGAL, RAVANA KAAVIYAM

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101A : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THAMIZH ILLAKKANA NOOLGAL - THOLKKAPPIYAM, NANNOOL, NAMBIYAGAP PORUL, THANDEYALANGARAM, PURAPPORUL VENNBAMALAI
2	1	MOZHI PAYIRCHI - OTTRUPIZHAI THAVIRTHAL, VALLINAM MIGUM IYEDANGAL
3	1	VALLINAM MIGUM IYEDANGAL, YEER OTTRU VARUM YEDANGAL, ORU OOR VARUM IYEDANGAL, ATHU AGTHU VARUM IYEDANGAL, THAAN THAAM VARUM IYEDANGAL
4	2	SANGA ILLAKKIYANGAL - NATTRENAI, KURUNTHOGAI
5	2	IYENGURUNOORU, KALITHOGAI , PUREANAANOORU, PATHUPPAATTIL MULLAI PAATTU
6	3	AARA ILLAKKIYANGAL - THIRUKKURAL-ARAN VALIYURUTHAL, NAALADEYAR, NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU
7	3	NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	KAAPIYANGAL -SILAMBU- VAZHAKKURAI KAATHAI,
9	4	MANIMEGALAI - PATHIRAM PETRA KAATHAI, PEREYAPURANAM- POOSALAR NAYANAR PURANAM
10	4	SEERAPURANAM - MAANUKKU PINAI NINDRA PADALAM
11	4	KAMBARAMAYANAM - GUGAPADALAM, YESUKAAVIYAM- OOTHAREE MAINTHAN UVAMAI
12	5	PAKKTHI ILLAKKIYANGAL - THIRUNAVUKARASAR THEVARAM, MAANIKAVASAGAR THIRUVASAGAM, MUTHAL AAZHVARGAL PAADALGAL
13	5	AANDAL THIRUPPAAVAI ,MUTHAL AAZHVARGAL PAADALGAL
14	5	PAGUTHAREVU ILLAKKIYANGAL - THIRUMOOLAR THIRUMANTHIRAM, PATTINATHAAR PAADALGAL
15	5	KADUVELI SITHAR PAADALGAL, RAVANA KAAVIYAM

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LT303A : TAMIL - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	KAAPPIYANGAL - SILLAPATHIGARAM-KUDRAKURAVAI
2	1	MANIMEGALAI - UTHANAKUMARANAI KAANCHANAN VAALAAL ERENTHA KAATHAI
3	2	SEEVAGA SINTHAMANI - NAAMAGAL ILLAMBAGAM NAATTUVALAM
4	2	KAMBARAMAYANAM - KAIGEYE SOOZHVINAI PADALAM
5	3	PEREYA PURANAM- IAIYANKUDI MARANAYANAR PURANAM
6	3	THEMBAVANI - SETHAIYON VETTRE PADALAM
7	3	SEERAPPURANAM -GAAMAPPADALAM-NUBUVATHU GANDAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	ILLAKKIYA VARALARU - IYEMPERUM KAPPIYANGAL , IYNCHIRU KAAPPIYANGAL
9	4	KIRUSTHUVA KAAPPIYANGAL - , ISALAMIYAKKAAPPIYANGAL
10	4	ISALAMIYA KKAAPPIYANGAL
11	5	MOZHITHIRAN PAYIRCHI - PANBALAI VAANOLI NIGAZHCHI THOGUPPU
12	5	VAADIKKAIYALAR SEVAIMAIYA ALUVALAR
13	5	SUTTRULA VAZHIGAATTI
14	5	KADETHANGAL- VAGAIGAL
15	5	POTHU KATTURAIGAL

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**21LT02 : TAMIL - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKKTHI ILLAKKIYAM- VALLALARIN THIRUARULKODAI 2PADALGAL THIRUGANASAMBANTHARUN MUTHAL THIRUMURAI 3 PADALGAL THIRUAALAVAI
2	1	PERIYAZHVARIN THIRUPPALLANDU, NAMAZHVARIN - THIRUVAIMOZHI-10
3	1	VANNAKALANCHIYA PULAVARIN KUTHPUNAYAGA PURANAM-THEENVILAKKAM VETHANAYAGAM PILLAIYIN NEETHI NOOL
4	2	SITTRELAKKIYANGAL- SIDDAR ILAKKIYANGAL, SOKKANATHARIN KILLAIVIDU THOOTHU PAGAZHI KOOTHARIN THIRUSENTHOOR MURUGAN PILLAITHAMIZH
5	2	KUMARAKURUBARAR- MADURAI MEENATCHIYAMMAIYIN RETTAIMANIMALAI ARUNAGIRENATHAR THIRUPUGAZH,
6	2	PATTINATHAR- THIRUTHILLAI 10 PADALGAL SIVA VAAKKIYAR
7	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 1-8

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 9-16
9	4	ILAKKIYA CVARALARU - PALLAVAR KALAM THOTRAMUM VALARCHIYUM
10	4	NAYAKKAR KALAM THOTTRAMUM VALARCHIYUM SIDDAR ILLAKKIYAM THOTTRAMUM VALARCHIUM
11	4	URAINADAI THOTTRAMUM VALARCHIUM
12	5	ILLAKKANAM - YAPPILAKKANAM, YAPPIN URUPPUGAL
13	5	ANIILAKKANAM - VETTRUPPOURUL VAIPPANI,
14	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU
15	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**21LT02 : TAMIL - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKKTHI ILLAKKIYAM- VALLALARIN THIRUARULKODAI 2PADALGAL THIRUGANASAMBANTHARUN MUTHAL THIRUMURAI 3 PADALGAL THIRUAALAVAI
2	1	PERIYAZHVARIN THIRUPPALLANDU, NAMAZHVARIN - THIRUVAIMOZHI-10
3	1	VANNAKALANCHIYA PULAVARIN KUTHPUNAYAGA PURANAM-THEENVILAKKAM VETHANAYAGAM PILLAIYIN NEETHI NOOL
4	2	SITTRELAKKIYANGAL- SIDDAR ILAKKIYANGAL, SOKKANATHARIN KILLAIVIDU THOOTHU PAGAZHI KOOTHARIN THIRUSENTHOOR MURUGAN PILLAITHAMIZH
5	2	KUMARAKURUBARAR- MADURAI MEENATCHIYAMMAIYIN RETTAIMANIMALAI ARUNAGIRENATHAR THIRUPUGAZH,
6	2	PATTINATHAR- THIRUTHILLAI 10 PADALGAL SIVA VAAKKIYAR
7	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 1-8

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	URAINADAI ILLAKKIYANGAL- PAVANAR NOKIL PERUMAKKAL 9-16
9	4	ILAKKIYA CVARALARU - PALLAVAR KALAM THOTRAMUM VALARCHIYUM
10	4	NAYAKKAR KALAM THOTTRAMUM VALARCHIYUM SIDDAR ILLAKKIYAM THOTTRAMUM VALARCHIUM
11	4	URAINADAI THOTTRAMUM VALARCHIUM
12	5	ILLAKKANAM - YAPPILAKKANAM, YAPPIN URUPPUGAL
13	5	ANIILAKKANAM - VETTRUPPOURUL VAIPPANI,
14	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU
15	4	KARUTHAMARVUGAL - ILAKKIYA VARALARU THODARPU

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**LT101A : TAMIL - I**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THAMIZH ILLAKKANA NOOLGAL - THOLKKAPPIYAM, NANNOOL, NAMBIYAGAP PORUL, THANDEYALANGARAM, PURAPPORUL VENNBAMALAI
2	1	MOZHI PAYIRCHI - OTTRUPIZHAI THAVIRTHAL, VALLINAM MIGUM IYEDANGAL
3	1	VALLINAM MIGUM IYEDANGAL, YEER OTTRU VARUM YEDANGAL, ORU OOR VARUM IYEDANGAL, ATHU AGTHU VARUM IYEDANGAL, THAAN THAAM VARUM IYEDANGAL
4	2	SANGA ILLAKKIYANGAL - NATTRENAI, KURUNTHOGAI
5	2	IYENGURUNOORU, KALITHOGAI , PUREANAANOORU, PATHUPPAATTIL MULLAI PAATTU
6	3	AARA ILLAKKIYANGAL - THIRUKKURAL-ARAN VALIYURUTHAL, NAALADEYAR, NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU
7	3	NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	KAAPIYANGAL -SILAMBU- VAZHAKKURAI KAATHAI,
9	4	MANIMEGALAI - PATHIRAM PETRA KAATHAI, PEREYAPURANAM- POOSALAR NAYANAR PURANAM
10	4	SEERAPURANAM - MAANUKKU PINAI NINDRA PADALAM
11	4	KAMBARAMAYANAM - GUGAPADALAM, YESUKAAVIYAM- OOTHAREE MAINTHAN UVAMAI
12	5	PAKKTHI ILLAKKIYANGAL - THIRUNAVUKARASAR THEVARAM, MAANIKAVASAGAR THIRUVASAGAM, MUTHAL AAZHVARGAL PAADALGAL
13	5	AANDAL THIRUPPAAVAI ,MUTHAL AAZHVARGAL PAADALGAL
14	5	PAGUTHAREVU ILLAKKIYANGAL - THIRUMOOLAR THIRUMANTHIRAM, PATTINATHAAR PAADALGAL
15	5	KADUVELI SITHAR PAADALGAL, RAVANA KAAVIYAM

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**LT101A : TAMIL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THAMIZH ILLAKKANA NOOLGAL - THOLKKAPPIYAM, NANNOOL, NAMBIYAGAP PORUL, THANDEYALANGARAM, PURAPPORUL VENNBAMALAI
2	1	MOZHI PAYIRCHI - OTTRUPIZHAI THAVIRTHAL, VALLINAM MIGUM IYEDANGAL
3	1	VALLINAM MIGUM IYEDANGAL, YEER OTTRU VARUM YEDANGAL, ORU OOR VARUM IYEDANGAL, ATHU AGTHU VARUM IYEDANGAL, THAAN THAAM VARUM IYEDANGAL
4	2	SANGA ILLAKKIYANGAL - NATTRENAI, KURUNTHOGAI
5	2	IYENGURUNOORU, KALITHOGAI , PUREANAANOORU, PATHUPPAATTIL MULLAI PAATTU
6	3	AARA ILLAKKIYANGAL - THIRUKKURAL-ARAN VALIYURUTHAL, NAALADEYAR, NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU
7	3	NAANMANIKADEGAI, PAZHAMOZHI NAANOORU, INNIYAVAI NAARPATHU

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	KAAPIYANGAL -SILAMBU- VAZHAKKURAI KAATHAI,
9	4	MANIMEGALAI - PATHIRAM PETRA KAATHAI, PEREYAPURANAM- POOSALAR NAYANAR PURANAM
10	4	SEERAPURANAM - MAANUKKU PINAI NINDRA PADALAM
11	4	KAMBARAMAYANAM - GUGAPADALAM, YESUKAAVIYAM- OOTHAREE MAINTHAN UVAMAI
12	5	PAKKTHI ILLAKKIYANGAL - THIRUNAVUKARASAR THEVARAM, MAANIKAVASAGAR THIRUVASAGAM, MUTHAL AAZHVARGAL PAADALGAL
13	5	AANDAL THIRUPPAAVAI ,MUTHAL AAZHVARGAL PAADALGAL
14	5	PAGUTHAREVU ILLAKKIYANGAL - THIRUMOOLAR THIRUMANTHIRAM, PATTINATHAAR PAADALGAL
15	5	KADUVELI SITHAR PAADALGAL, RAVANA KAAVIYAM

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LESSON PLAN

Name of the Staff	**Mr. A. Mahimai Kuzhanthai Yesu**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**1**
Subject	**PSW13A : SOCIAL GROUP WORK**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Social Group Work: The Group: Definition, characteristics, types, Functions and group structure, and making of groups.
2	1	Social Group Work: Definitions, objective, Values and Principles of Social Group Work. History of Social Group Work in India and abroad.
3	1	Social Group Work as a method of Social Work.
4	2	Group Dynamics and Group functioning: Dynamics of Groups: Bond, Acceptance, Isolation, Rejection, Subgroups, Conflict and Control.
5	2	Group Membership, Group Norm, Group Cohesiveness, Group Culture, Group Morale, Group Attraction.
6	2	Leadership and Communication in groups. Relationships-Sociometry. Issues of Identity, Diversity and Marginalization.
7	3	Group formation and Group work process: Group Formation Phases: Forming- Storming, Norming, Performing, Adjourning.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Group Work Process: Intake, Study, Analysis and Assessment, Negotiating, Contracts, Treatment, Evaluation, Termination,
9	3	Stabilization of change effort. Decision making and Problem Solving Process.
10	4	Models of Social Group Work: Remedial, Mediating or Reciprocal, Developmental, Social Goal Model and Consensus Model.
11	4	Theories of Leadership, Skills, Qualities and Roles and responsibilities of group leader. Group therapy: Significance of Group therapy.
12	4	Recording in Social Group Work: Principles, Structure and Types. Monitoring and Evaluation. Techniques, Skills, Roles and Responsibility of Social Group Worker.
13	5	Application of Social Group Work: Application of Social Group Work in School Settings, Community Settings,
14	5	Health Settings, Family Welfare Settings, Industrial Settings, Women welfare and Child Care Settings, Correctional Settings,
15	5	Older Persons, Religious Minorities, LGBTQ, and other Socially and Economically Disadvantaged Groups.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404A : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.2. PURANAANOORU - 184, 204 1.2. AGANAANOORU - 219, 351
2	1	1.3. KURUNTHOGAI - 20,210 1.4. NATRINAI - 21, 86
3	1	1.5. INGURUNOORU - ANNAI VAZHI PATHU (1-5) 1.6. KALITHOGAI - KURINCHIKALI (40)
4	1	1.7. PARIPAADAL
5	3	3.1. ARATHU PAADAL - VIRUNTHOMPAL
6	3	3.2. PORUTPAAL - KALLAMAI
7	3	3.3. ENPATHUPAAL - KURIPARITHAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	4.1. ETTUTHOGAI
9	4	4.3. PATHINEN KEEZH KANAKIL NEETHI NOOGAL
10	2	2.1. SIRUPANAATRU PADAI - 111-145, 235-261 (NALLIYAK KODANIN SIRAPU)
11	2	2.2. MULLAIPAATTU - 26-79 VARIGAL
12	2	2.3. MATHURAI KAANCHI - 238-270 (PAANDIYANIN IVAI NILATHIL AMAINTHA PANPUM VALAMUM)
13	2	2.4. PATTINAPAALAI - 1-59 (KAAVERI POOMPATTINATHIN SIRPU)
14	5	4.2. PATHTHUPATU 5.1. PATHIRIGAIGALIL SEITHI VARAITHAL
15	5	5. 2. SURUKI VARAITHAL 5.3. NERKAANAL

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Write a C program to find the odd or even numbers for the range of given number. Write a C program to find the sum of series
2	3	Write a C program to generate the Fibonacci series Write a C program to check whether the given year is leap year or not.
3	5	Write a C program to reverse a given number. Write a C program to find the given number is Armstrong or not.
4	7	7. Write a C program to display the following output (a) * * * *** (b) 1 1 2 1 2 3 (c) 1 2 2 3 3 3 (d) 3 3 3 2 2 1
5	8	8. Write a C program to find the largest number among the three numbers. 9. Write a C program to find whether the person is eligible to vote or not
6	10	10. Write a C program to display the grade of the student by using conditional statement
7	11	11. Write a C program to display the arithmetic manipulation using Switch statement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	12	12. Write a C program to find out the Factorial with and without using recursive function.
9	13	13. Write a C program to add a 2 numbers by using all functions.
10	14	14. Write a C program to swap 2 numbers without using the temporary variables. 15. Write a C program to find the length of the string with and without using string function.
11	16	16. Write a C program to check whether the given string is Palindrome or not.
12	17	17. Write a c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2) (c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)
13	15	18. Write a C program to generate the numbers in ascending order.
14	19	19. Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array.
15	20	Write a C program to swap 2 numbers using pointer.

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LESSON PLAN

Name of the Staff	**ANJAL MOSE S Dr.**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**AMTCA101 : MATHEMATICAL FOUNDATIONS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conjunction, disjunction
2	1	negation, conditional and bi-conditional operators
3	1	Converse, inverse, contra-positive,logically equivalent, tautology and contradiction, arguments and validity of arguments.
4	2	Set theory
5	2	Relations
6	2	Functions.
7	3	Binary operations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Permutations and Combinations
9	3	Mathematical induction
10	4	Types of matrices, operations on matrices, simple problems, singular and non-singular matrices,
11	4	Adjoint of a matrix, inverse of a matrix,symmetric and skew-symmetric, Hermitian and skew-Hermitian, orthogonal and unitary matrices, rank of a matrix
12	4	Consistency of a system of linear equations by 1. Cramer's rule 2. Matrix inversion method. 3. Rank method
13	5	Characteristic roots and characteristic vectors
14	5	Cayley-Hamilton theorem
15	5	Matrix of linear transformation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Character is Destiny – S. Radha Krishnan (Prose) All the World's a Stage – William Shakespeare (Poetry)
2	1	The Never Never Nest – Cedric Mount (Play)
3	2	Understanding Communication Greeting and Introducing Making Requests Agreeing and Disagreeing Seeking and Giving Permission Persuading and Debating
4	2	Sounds and Symbols in English
5	2	Word and Sentence Stress Effective Use of Intonation Telephone Manners in Business Situations Handling Customer Orders and Enquiries Handling Complaint Calls
6	5	Note – Making Report – Writing
7	0	REVISION

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	The Gift of the Magi – O'Henry (Short Story) Mallala Yousafzai Pakistani Activist – Naomi Blumberg (Biography) The Monkey's Paw – W.W Jacob (One – Act Play)
10	4	Effective Listening Understanding the Audience Perceptual Clarity
11	4	Channel Awareness Role of Non – Verbal Communication Pragmatics
12	4	Handling Delivery and After – Sales Problems Taking Part in Teleconferences Tele – Interviews
13	5	Publicity Literature (Advertisements)
14	0	II CIA
15	0	FULL REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Women - S. Radhakrishnan (Prose) The Solitary Reaper – William Wordsworth (Poem)
2	1	The Purple Dress – O'Henry (Short Story)
3	2	Preparing Agenda for Meetings Writing Minutes of Meetings Making Notes of Business conversations
4	2	Making Business Presentations Business promotions and Language for Advertising Negotiating Communication Skills with Public, Fellow Employees, Supervisors and Customers Soft Skills for Team Building Team Maintenance and Task Maintenance roles Brai...
5	3	Standard Business Letter
6	3	Applying for Jobs and Preparing Resumes Writing cover letters for resume
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Importance of Effective Communication in Business Contexts Face – to - Face Communication with Customers and Visitors. Basic Skills for Talking to People in Transactional Situations
9	4	Receiving Visitors Booking Hotel Accommodation Making Small Talk and Telling Stories. Group Discussions
10	4	Preparing for Interviews Taking Interviews Promotion Interviews
11	5	Give us a Role Model – A.P.J. Abdul Kalam (Prose)
12	5	Sowali – Mahasweta Devi (Story)
13	5	J.R.D's Words of Inspiration to Sudha Murthy (Prose)
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**VIRGIN RAJ A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AMCA403S : RESOURCE MANAGEMENT TECHNIQUES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definitions of OR-Linear programming problem
2	1	Graphical solution -Simplex method
3	1	Artificial variables techniques – Big M method .
4	2	Definition , Formulation of Transportation-North-west corner method
5	2	Matrix minima method- Vogel's Approximation method – solution of Transportation-modi's method
6	2	ASSIGNMENT MODELS: Definition of Assignment models-Formulation and solution of Assignment models-Special cases in Assignment problems
7	3	Basic term used in sequencing-Processing n jobs through two machines

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Processing n jobs through three machines
9	3	Processing two jobs through k machines.
10	4	Two person zero sum game-Basic terms
11	4	Maximin and Minimax principle-Games without saddle point
12	4	Mixed stratergies– graphical solution of 2xn and mx2 games - Dominance property.
13	5	Introduction –Network and basic component
14	5	Logical sequencing -Fulkerson's rule of the Network construction
15	5	Critical path Analysis &PERT analysis- PERT-Distinction between PERT and CPM .

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
3	1	2. Determining the order of numbers generated randomly using Random class.
4	2	2. Determining the order of numbers generated randomly using Random class.
5	2	3. Implementing and importing packages.
6	3	4. Implementing Interfaces-Arithmetic Manipulations
7	3	5. Exception Handling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	6. Multithreading
9	4	7. String Manipulation using buffered Reader
10	4	7. String Manipulation using buffered Reader
11	4	8. Usage of Calendar Class and manipulation
12	5	9. Application using File streams(Sequential File)
13	5	10. Application using File streams(Random File)
14	5	10. Application using File streams(Random File)
15	5	10. Application using File streams(Random File)

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	To implement Bio-Data Information using Frame class with various controls
3	1	Display different graphical symbols using Applet class
4	2	Display different graphical symbols using Applet class
5	2	To implement for sending a string from one system to another using TCP/IP
6	2	To implement for sending a string from one system to another using TCP/IP
7	3	Chatting Application using TCP/IP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To develop an application for telephone directory using data base (MS access)
9	3	To develop an application for telephone directory using data base (MS access)
10	4	To implement student mark list using AWT classes with data base (MS access)
11	4	To implement student mark list using AWT classes with data base (MS access)
12	4	To develop a program for prime number using RMI
13	5	To develop a program for Arithmetic Operation using Servlets
14	5	To develop a program for Arithmetic Operation using Servlets
15	5	To develop an application for simple EB Bill using Servlets with database

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA408T : ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AWT Overview: Components, ContainerAWT classes: Button, TextField, Checkbox
2	1	Layouts-Simple example using AWT
3	1	Applet: Introduction to Applet-Life Cycle of Applet.-Simple example using applet.
4	2	Networks: Network Basics,socket overview
5	2	Internet Addressing-DNS-TCP/IP
6	2	URL-Example using network concepts.
7	3	DataBase: JDBC-ODBC Driver-Connection class

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Statement class-ResultSet class
9	3	Example using database (MS Access).
10	4	RMI: Introduction to RMI
11	4	Architecture of RMI
12	4	A complete example using RMI.
13	5	Servlet: Servlet overview – your first servlet
14	5	servlet chaining – session management in servlet
15	5	Session Tracking-simple database program using Servlet

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. To implement Bio-Data Information using Frame class with various controls.
2	1	2. Display different graphical symbols using Applet class.
3	2	3. To implement for sending a string from one system to another using TCP/IP.
4	2	4. Chatting Application using TCP/IP.
5	3	5. To develop an application for telephone directory using data base (MS access).
6	3	contd.. To develop an application for telephone directory using data base (MS access).
7	3	6. To implement student mark list using AWT classes with data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	contd.. To implement student mark list using AWT classes with data base (MS access).
9	4	7.To develop a program for prime number using RMI.
10	4	contd.. To develop a program for prime number using RMI.
11	5	8. To develop a program for Arithmetic Operation using Servlets.
12	5	contd.. To develop a program for Arithmetic Operation using Servlets.
13	5	9. To develop an application for simple EB Bill using Servlets with database
14	5	contd.. To develop an application for simple EB Bill using Servlets with database
15	5	sample program and revision

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA407T : INTERNET TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internet Connection Concepts : Internet Communication Protocols – Internet Hosts – Internet Protocol(IP) Addresses)
2	1	Domain and Host Name - Servers and Clients – Ports and Port Numbers –
3	1	Types of Internet Connections – Internet Service Providers(ISPs)
4	2	World Wide Web Concepts : URLs and Transfer Protocols – HTML – Java and JavaScript – VBScript – Plug-ins
5	2	XML – Cascading Style Sheets(CSS) – Websites
6	2	Portals – Web Directories and Search Engines – Home Pages.
7	3	HTML tags : History of HTML – Structure of HTML

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Basic Tags of HTML - List – Linking Document
9	3	Frames -Graphics to HTML documents
10	4	Style Sheet Basics : Introduction to CSS – Add Style to document – Creating Style Sheet rules
11	4	Style Sheet properties-Font – text
12	4	Color and Background Color – Box Properties.
13	5	JavaScript : Introduction – Advantage of JavaScript – JavaScript Syntax
14	5	Data type – Variable – Array – Operator & Expressions
15	5	Looping Constructors – Function – Dialog Box .

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	Display different graphical symbols using Applet class.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	Sample program in applet using awt contols
5	2	Chatting Application using TCP/IP.
6	2	To develop an application for telephone directory using data base (MS access).
7	3	To implement student mark list using AWT classes with data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Model practical
9	4	develop calculator
10	4	To develop a program for Arithmetic Operation using Servlets.
11	4	To develop an application for simple EB Bill using Servlets with database.
12	4	To develop a program for prime number using RMI.
13	5	To develop a program for factorial number using RMI.
14	5	model practical
15	5	Revision

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion –
3	1	KTechniques in Group Discussion – Tips for Group Discussion.
4	2	Interview Preparation: Common Interview Questions – Questions to Ask Your Employer – What Emplopyers Want
5	2	– Attitude & Effort – Body Language .Types of interview: The Mock interview – Phone interviews
6	2	Behavioural Interviews – Closing the interview – Thank You notes & Follow-Ups
7	3	Quantitative Aptitude: Time and work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Time and Distance – Heights and Distances
9	3	Data Interpretation: Tabulation – Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning (1): Analogies –
11	4	Arrangement - Causes and Effects
12	4	Family Tree – Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series
14	5	Code based questions on letter of Alphabets
15	5	Syllogism - Statement and Conclusion.

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
3	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
4	2	Determining the order of numbers generated randomly using Random class.
5	2	Determining the order of numbers generated randomly using Random class.
6	3	Implementing and importing packages for simple application.
7	3	Implementing and importing packages for simple application.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing and importing packages for simple application.
9	4	Implementing Interfaces-Arithmetic Manipulations.
10	4	Implementing Interfaces-Arithmetic Manipulations.
11	4	Implementing Interfaces-Arithmetic Manipulations.
12	5	Exception Handling.
13	5	Exception Handling.
14	5	Exception Handling.
15	6	String Manipulation using String/StringBuffer class

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls
2	1	To implement Bio-Data Information using Frame class with various controls
3	2	. Display different graphical symbols using Applet class.
4	2	. Display different graphical symbols using Applet class.
5	3	To implement for sending a string from one system to another using TCP/IP.
6	4	Chatting Application using TCP/IP.
7	5	To develop an application for telephone directory using data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	To develop an application for telephone directory using data base (MS access).
9	6	To implement student mark list using AWT classes with data base
10	6	To implement student mark list using AWT classes with data base
11	7	To develop a program for prime number using RMI.
12	7	To develop a program for prime number using RMI.
13	8	To develop a program for Arithmetic Operation using Servlets
14	9	To develop a program for Arithmetic Operation using Servlets
15	9	To develop a program for Arithmetic Operation using Servlets

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CA306T : COMPUTER ALGORITHMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction -algorithm-PSEUDO-how to analyze algorithm
2	1	Introduction -algorithm-PSEUDO-how to analyze algorithm
3	1	How to analyze problems-time complexity-problems
4	1	Space complexity-asymptotic notations-big oh-big omega-theta
5	2	divide and conquer technique-introduction-examples problem
6	2	complexity analysis-merge sort examples
7	2	quick sort -examples-strassen matrix multiplication -examples

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	greedy technique-introduction-example problem
9	3	knapsack problem -example-shortest parh algorithm
10	4	Dynamic programming -general methods
11	4	multistage graph forward approach-examples-multistage graph backward approach-examples
12	4	traveling salesman problem examples
13	5	tree traversal examples
14	5	backtracking general method
15	5	BFS algorithm -examples-DFS algorithm examples

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Area of a circle program
2	1	Random numbers lab programs
3	2	Sample programs using Control statements
4	2	Sample programs using looping
5	3	Package lab programs
6	3	Sample programs using packages
7	3	Interface lab programs

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sample programs using interface
9	4	multithreading lab programs
10	4	String lab programs
11	4	String buffer lab exercise
12	5	file related programs
13	5	Sequential file lab program
14	5	calendar and random class program
15	5	Sample file programs

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample programs using AWT controls
2	1	Biodata creation using AWT
3	1	Sample program using Applets
4	1	Graphical Symbols using Applet concepts
5	2	TCP/IP program
6	2	Chatting application
7	2	Program to find host name and host address

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	develop telephone directory program
9	3	create student marklist using msaccess
10	4	Find prime number using RMI
11	4	Addition of two numbers using RMI
12	5	Arithmetic operation using Servlet in Java
13	5	EBBill creation using Servlet
14	5	Sample examples using servlet
15	5	Revised all the programs

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Printing data Supporting teach & error correction
2	1	For while dowhile Supporting teach & error correction
3	1	Pascal triangle Supporting teach & error correction
4	2	Finding area and Perimeter of a circle. Use Buffered Reader class. Supporting teach & error correction
5	3	Determining the order of numbers generated randomly using Random class. Supporting teach & error correction
6	3	Determining the order of numbers generated randomly using Random class. Samples Supporting teach & error correction
7	3	Implementing and importing packages. Supporting teach & error correction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Implementing and importing packages. _- multiple Supporting teach & error correction
9	4	Supporting teach & error correction. Exception Handling
10	4	Implementing Interfaces-Arithmetic Manipulations Supporting teach & error correction
11	4	Multithreading Supporting teach & error correction
12	5	String Manipulation using buffered Reader Supporting teach & error correction
13	5	Usage of Calendar Class and manipulation Supporting teach & error correction
14	5	Application using File streams(Sequential File) Supporting teach & error correction
15	5	Application using File streams(Random File) Supporting teach & error correction

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**ACCA401 : FINANCIAL ACCOUNTING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Accounting-Meaning – Definition- Need for Accounting –scope of Accounting – Branches of Accounting – Methods of Accounting
2	1	Types of accounts – Accounting rules – Book Keeping and Accounting -Advantages and limitations of accounting
3	1	Accounting concepts and conventions.Journal -Introduction – Meaning- Transaction analysis for journal entries-Ledger – Meaning – Difference between journal and ledger.
4	2	Subsidiary books –Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales
5	2	purchase returns – sales returns – cash book – single column, Double column and Triple column cash book.
6	2	Trial Balance - Introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance.
7	3	Introduction – Meaning – Definition – Causes for differences between cash book and pass book

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Method of preparation of Bank Reconciliation statement.
9	3	Revision
10	4	Depreciation – Introduction, meaning, causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation – Straight line method
12	4	written down value methods
13	5	Final Accounts – Introduction – Preparation of manufacturing account -– Trading account – profit and loss account
14	5	Balance sheet – Adjustments (Simple).
15	5	Revision

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Area and Perimeter of a circle
2	1	Area and Perimeter of a circle
3	1	Area and Perimeter of a circle
4	2	Random Class
5	2	Random Class
6	2	Random Class
7	3	Packages

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Packages
9	3	Packages
10	4	Interfaces
11	4	Interfaces
12	4	Interfaces
13	5	Exception Handling
14	5	Exception Handling
15	5	Exception Handling

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CA306T : COMPUTER ALGORITHMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Algorithm
2	1	How to analyze algorithms
3	1	Time and space complexity, Asymptotic notations
4	2	Divide and Conquer- General method
5	2	Complexity Analysis, Merge sort
6	2	Quick Sort, Strassen's matrix multiplication
7	3	Greedy method , General method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Shortest path algorithms, problems
9	3	0/1 Knapsack problem
10	4	Dynamic programming
11	4	Travelling salesman Problem
12	4	Multistage graph
13	5	Backtracking
14	5	Breadth first search
15	5	Depth first search

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	To implement Bio-Data Information using Frame class with various controls.
3	1	Display different graphical symbols using Applet class.
4	2	To implement for sending a string from one system to another using TCP/IP.
5	2	To implement for sending a string from one system to another using TCP/IP.
6	2	Chatting Application using TCP/IP.
7	3	Chatting Application using TCP/IP.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To develop an application for telephone directory using data base (MS access).
9	3	To develop an application for telephone directory using data base (MS access).
10	4	To implement student mark list using AWT classes with data base (MS access).
11	4	To implement student mark list using AWT classes with data base (MS access).
12	4	To develop a program for prime number using RMI.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**AMTCA302 : NUMERICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	First and higher order differences-forward differences and Back ward differences-Properties of operators
2	1	Differences of a Polynomial-Factorial Polynomials – Operator E, Relation between and E
3	1	–Interpolation – Newton – Gregory forward & backward formula – simple problems.
4	2	Central difference Operators – Central differences formula
5	2	Gauss Forward and Backward formula – simple problems
6	2	Sterling's formula – simple problems – Bessel's formula) – simple problems.
7	3	Divided differences – Newton's divided differences formula

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lagrange’s formula – Estimating the Missing terms ,Lagrange’s method
9	3	Inverse Lagrange's method , Revision for Unit 1, Unit 2 and Unit 3
10	4	Gauss elimination method - Gauss Jordan Method
11	4	matrix inversion method using Gauss – Jordan Method,
12	4	Gauss – Seidal method – Crout’s method
13	5	Solving second order differential equation, Runge kutta method,
14	5	Runge kutta method fourth order , Euler’s modified method, Euler’s method
15	5	Adam’s method Revision for Unit 4 and Unit 5

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Finding area and Perimeter of a circle. Use Buffered Reader class
2	2	Determining the order of numbers generated randomly using Random class.
3	2	Determining the order of numbers generated randomly using Random class.
4	3	Implementing and importing packages.
5	3	Implementing and importing packages.
6	4	Implementing Interfaces-Arithmetic Manipulations
7	4	Implementing Interfaces-Arithmetic Manipulations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Exception Handling
9	5	Exception Handling
10	6	Multithreading
11	7	String Manipulation using buffered Reader
12	7	String Manipulation using buffered Reader
13	8	Usage of Calendar Class and manipulation
14	9	Application using File streams(Sequential File)
15	10	Application using File streams(Random File)

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	To implement Bio-Data Information using Frame class with various controls
3	1	Display different graphical symbols using Applet class
4	2	Display different graphical symbols using Applet class
5	2	To implement for sending a string from one system to another using TCP/IP
6	2	To implement for sending a string from one system to another using TCP/IP
7	3	Chatting Application using TCP/IP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To develop an application for telephone directory using data base (MS access)
9	3	To develop an application for telephone directory using data base (MS access)
10	4	To implement student mark list using AWT classes with data base (MS access)
11	4	To implement student mark list using AWT classes with data base (MS access)
12	4	To develop a program for prime number using RMI
13	5	To develop a program for Arithmetic Operation using Servlets
14	5	To develop a program for Arithmetic Operation using Servlets
15	5	To develop an application for simple EB Bill using Servlets with database

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**ACA301 : ORGANIZATIONAL BEHAVIOUR**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	FOCUS AND PURPOSE: Introduction to organizational behaviour: Challenges facing the Management-Paradigm shift-New perspective of Management
2	1	Define Organizational Behaviour – Frame work
3	1	Organizational behaviour model.
4	2	INDIVIDUAL BEHAVIOUR: Personality – types – Factors influencing personality
5	2	Theories -Perception Process-Social Perception
6	2	Attitudes-Motivation – MotivationProcess –Hierarchy of work Motivation.
7	3	GROUP BEHAVIOUR: Nature of Groups– Dynamics of Informal Groups-dysfunction of group

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Work Team building
9	3	Communication
10	4	LEADERSHIP AND POWER: Meaning – Importance – Leadership styles
11	4	Traditional Theories of Leadership-Modern Theoretical process of Leadership
12	4	Power and Politics.
13	5	DYNAMICS OF ORGANIZATIONAL BEHAVIOUR:Organizational culture and climate
14	5	Factors affecting organizational climate – Importance ofJob satisfaction-
15	5	Organizational change – Stress and Conflict.

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA407T : INTERNET TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internet Connection Concepts : Internet Communication Protocols Internet Hosts
2	1	Internet Protocol(IP) Addresses , Domain and Host Name , Servers and Clients
3	1	Ports and Port Numbers ,Types of Internet Connections , Internet Service Providers(ISPs)
4	2	World Wide Web Concepts : URLs and Transfer Protocols ,HTML .
5	2	Java and JavaScript , VBScript ,Plug-ins ,XML
7	3	HTML tags : History of HTML ,Structure of HTML , Basic Tags of HTML
8	3	List , Linking Document

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Frames , Graphics to HTML Documents.
10	4	Style Sheet Basics : Introduction to CSS ,Add Style to document
11	4	Creating Style Sheet rules ,Style sheet Properties, Font, text
12	4	Color and Background Color , Box Properties.
13	5	JavaScript : Introduction , Advantage of JavaScript
14	5	JavaScript Syntax , data type ,Variable ,Array ,Operator & Expressions
15	5	Looping Constructors ,Function ,Dialog Box .
6	2	Cascading style sheets(CSS), Websites,Portals, Web Directories, Search Engine, Home pages

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	Display different graphical symbols using Applet class.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	To implement for sending a string from one system to another using TCP/IP.
5	2	Chatting Application using TCP/IP.
6	2	To develop an application for telephone directory using data base (MS access).
7	3	To develop an application for telephone directory using data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To implement student mark list using AWT classes with data base (MS access).
9	3	To implement student mark list using AWT classes with data base (MS access).
10	4	To develop a program for prime number using RMI.
11	4	To develop a program for prime number using RMI.
12	4	To develop a program for Arithmetic Operation using Servlets.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion –
3	1	KTechniques in Group Discussion – Tips for Group Discussion.
4	2	Interview Preparation: Common Interview Questions – Questions to Ask Your Employer – What Emplopyers Want
5	2	– Attitude & Effort – Body Language .Types of interview: The Mock interview – Phone interviews
6	2	Behavioural Interviews – Closing the interview – Thank You notes & Follow-Ups
7	3	Quantitative Aptitude: Time and work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Time and Distance – Heights and Distances
9	3	Data Interpretation: Tabulation – Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning (1): Analogies –
11	4	Arrangement - Causes and Effects
12	4	Family Tree – Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series
14	5	Code based questions on letter of Alphabets
15	5	Syllogism - Statement and Conclusion.

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Finding area and perimeter of a circle. Use buffered Reader class
2	1	explanation of buffered reader class
3	1	error correction
4	3	implementing and importing packages.
5	3	explanation of packages
6	3	error correction
7	4	implementing interfaces- Arithmetic manipulations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	explanation of packages
9	4	error correction
10	6	Multithreading
11	6	explanation of threads
12	6	error correction
13	7	Usage of calendar class and manipulation
14	7	explanation of inbuilt class -calendar class
15	7	error correction

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic simple programs
2	2	Finding area and Perimeter of a circle. Use Buffered Reader class.
3	3	Determining the order of numbers generated randomly using Random class.
4	4	practical Test
5	5	Implementing and importing packages.
6	6	Implementing Interfaces-Arithmetic Manipulations
7	7	Practical Test

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Exception Handling
9	9	Multi threading
10	10	Practical Test
11	11	String Manipulation using buffered Reader
12	12	Usage of Calendar Class and manipulation
13	13	Application using File streams(Sequential File)
14	14	Application using File streams(Random File)
15	15	Model Practical

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA408T : ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AWT Overview-Components and Containers
2	1	AWT Classes
3	1	Introduction to Applet & Applet Basics
4	1	Life cycle of Applet & Sample programs
5	2	Networks - Network Basics
6	2	Socket Overview
7	2	Inet Address, DNS and URL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Database-JDBC-ODBC Drivers
9	3	Connection Class and ResultSet Class with example Programs
10	4	Introduction to RMI
11	4	Architecture of RMI
12	4	Sample example using RMI
13	5	Servlet Overview and Servlet Chaining
14	5	Session Tracking and Session Management
15	5	Servlet programs and Revision

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Area of a circle program
2	1	Random numbers lab programs
3	2	Sample programs using Control statements
4	2	Sample programs using looping
5	3	Package lab programs
6	3	Sample programs using packages
7	3	Interface lab programs

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sample programs using interface
9	4	multithreading lab programs
10	4	String lab programs
11	4	String buffer lab exercise
12	5	file related programs
13	5	Sequential file lab program
14	5	calendar and random class program
15	5	Sample file programs

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample programs using AWT controls
2	1	Biodata creation using AWT
3	1	Sample program using Applets
4	1	Graphical Symbols using Applet concepts
5	2	TCP/IP program
6	2	Chatting application
7	2	Program to find host name and host address

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	develop telephone directory program
9	3	create student marklist using msaccess
10	4	Find prime number using RMI
11	4	Addition of two numbers using RMI
12	5	Arithmetic operation using Servlet in Java
13	5	EBBill creation using Servlet
14	5	Sample examples using servlet
15	5	Revised all the programs

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**ACCA401 : FINANCIAL ACCOUNTING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Accounting-Meaning – Definition- Need for Accounting –scope of Accounting – Branches of Accounting – Methods of Accounting – Types of accounts – .
2	1	Accounting rules – Book Keeping and Accounting -Advantages and limitations of accounting - Accounting concepts and conventions
3	1	Journal -Introduction – Meaning- Transaction analysis for journal entries-Ledger – Meaning – Difference between journal and ledger.
4	2	Subsidiary Books and Trial Balance Subsidiary books –Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales – purchase returns – sales returns –
5	2	Cash book – single column, Double column and Triple column cash book.
6	2	Trial Balance - Introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance
7	3	Bank Reconciliation Statement Introduction – Meaning – Definition – Causes for differences between cash book and pass book

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Method of preparation of Bank Reconciliation statement.
9	3	Preparation of Bank Reconciliation statement- Problems. Revision.
10	4	Depreciation Accounting Depreciation – Introduction, meaning, causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation – Straight line method
12	4	Methods of providing Depreciation- Written down value methods only.
13	5	Final Accounts of Sole Trader Final Accounts – Introduction – Preparation of manufacturing account
14	5	Preparation of Trading account –Preparation of profit and loss account.
15	5	Preparation of Balance sheet – Adjustments (Simple). Rivision

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CA306T : COMPUTER ALGORITHMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Algorithm
2	1	How to analyze algorithms
3	1	Time and space complexity, Asymptotic notations
4	2	Divide and Conquer- General method
5	2	Complexity Analysis, Merge sort
6	2	Quick Sort, Strassen's matrix multiplication
7	3	Greedy method , General method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Shortest path algorithms, problems
9	3	0/1 Knapsack problem
10	4	Dynamic programming
11	4	Travelling salesman Problem
12	4	Multistage graph
13	5	Backtracking
14	5	Breadth first search
15	5	Depth first search

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AMCA403S : RESOURCE MANAGEMENT TECHNIQUES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of Operation Research, formation of LPP, Graphical Method
2	1	Simplex Methods, Problems
3	1	Artificial variables techniques – Big M method
4	2	Definition , Formulation of Transportation-North-west corner method
5	2	Matrix minima method- Vogel's Approximation method solution of Transportation-modi's method
6	2	Definition of Assignment models- Formulation and solution of Assignment models-Special cases in Assignment problems
7	3	Basic term used in sequencing-Processing n jobs through two machines

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Processing n jobs through three machines- Processing two jobs through k machines.
9	3	Processing n jobs through three machines- Processing two jobs through k machines.
10	4	Two person zero sum game-Basic terms –Maximin and Minimax principle
11	4	Games without saddle point –Mixed stratergies
12	4	graphical solution of 2xn and mx2 games -Dominance property.
13	5	Introduction –Network and basic component –Logical sequencing
14	5	Fulkerson's rule of the Network construction
15	5	Critical path Analysis &PERT analysis- PERT-Distinction between PERT and CPM .

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**AMTCA302 : NUMERICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	First and higher order differences-forward differences and Back ward differences-
2	1	Properties of operators-Differences of a Polynomial-Factorial Polynomials – Operator E, Relation between and E – Interpolation –
3	1	Newton – Gregory forward & backward formulae for interpolation
4	2	Central difference Operators – Central differences formulae: Gauss Forward and Backward formulae
5	2	Gauss Backward formulae Sterling's formula – simple problems
6	2	Bessel's formula – simple problems.
7	3	Divided differences – Newton's divided differences formula

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lagrange's formula – Estimating the Missing terms [with one or more missing values] -
9	3	Lagrange's method and Reversion of series method [Using Newton's forward formula]
10	4	Gauss elimination method
11	4	matrix inversion method – Gauss – Jordan Method, Gauss – Seidal method
12	4	Crout's method [Three unknowns only]
13	5	Solving second order differential equation,
14	5	Runge kutta method, Euler's modified method,
15	5	Euler's method, Adam's method

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA616T : SOFTWARE ENGINEERING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Evolving Role of Software-Characteristics of Software
2	1	Software Myths-Process Models
3	1	Waterfall Model- Evolutionary Process Models.
4	2	Requirement Engineering: Tasks
5	2	Initiating the Requirements Engineering Process
6	2	Eliciting Requirements
7	3	Building Analysis Model: Requirement Analysis

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data Modeling – Flow Oriented Modeling
9	3	Class Based Modeling – Creating a Behavioral Model
10	4	Testing:Software Testing Methods - Software Testing strategies
11	4	White Box Testing – Basic Path- Control Structure
12	4	Black Box Testing.
13	5	Project Management: Management Spectrum
14	5	Formal Technical Reviews – Software Change Management Process
15	5	Clean Room S/W Engineering Specification-Design and Testing.

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA511 : DATA COMMUNICATION NETWORKS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Networks,Protocols and Standards-Line Configuration
2	1	Topology: Mesh.Star,Tree,Bus and Ring Topogy
3	1	Transmission Mode, : Simplex,Half Duplex,Full Duplex,Categories of Network: LAN,MAN,WAN. Internetworks
4	2	OSI model: functions of the layers
5	2	TCP/IP protocol suite – signals – analog and digital signal – periodic and a periodic signals – analog signals – digital signal
6	2	Data transmission – data terminal equipment – data circuit terminals equipment – modems.
7	3	Transmission media: guided media – unguided media – transmission impairments – media comparison.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplexing – FDM – TDM – WDM
9	3	Error detection and correction – types of errors–detection – vertical redundancy check (VRC) – longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction.
10	4	Switching Techniques: circuit switching
11	4	Packet switching – message switching
12	4	Networking and Inter networking devices – repeaters – bridges – routers – gateways.
13	5	Routing algorithms: distance vector routing
14	5	Link state routing
15	5	Data link control – line discipline – flow control – error control.

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To develop simple student bio data
2	1	To develop simple student bio data
3	1	Create a color chooser using standard control.
4	2	Create a color chooser using standard control.
5	2	To develop Notepad Application
6	2	To develop Notepad Application
7	2	Login Form Creation using Ms Access

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create an application to send a request from one page to another using session
9	3	Create an application to send a request from one page to another using session
10	4	Create a web page for an Organisation using Master Page
11	4	Create a web page for an Organisation using Master Page
12	4	Develop Database Application for Student Mark list Processing using Validation Control
13	5	Develop Database Application for Telephone Directory
14	5	Develop Database Application for Telephone Directory
15	5	Develop Database Application for Telephone Directory

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	System Analysis: Requirements Gathering
2	1	System Specification
3	1	System Specification
4	2	System Design
5	2	System Design
6	2	System Design
7	3	Coding

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Coding
9	3	Coding
10	4	Testing
11	4	Testing
12	4	Testing
13	5	Implementation
14	5	Implementation
15	5	Implementation

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	example programs in console application-arithmetic operation,simple manipulation
2	1	example programs in windows application-simple form creation,event code,properties
3	1	Lab-1 creating Bio Data application lab program
4	2	sample programs using Timer,dialogs
5	2	Lab-2 color chooser program
6	3	sample programs using dialog controls,openfiledialog,savefiledialog,printdialog
7	3	Lab-3-Notepad Application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	program for creating more than one form
9	4	Lab-4-Login form creation
10	5	sample programs for webforms
11	5	Lab-5-creating page request from one page to another
12	6	sample programs for creating more than one webforms
13	6	Lab-6 -creating simple website
14	7	Lab-7-creating student marklist using database
15	8	Lab-8-Creating Telephone Directory using database

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Queries using DDL DMLand DCL
2	1	SQL In Built Function
3	1	Set operation
4	2	Practical test
5	2	Sample programs using joins
6	2	Views and snapshots
7	3	Manipulate program using sub queries

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PL/SQL Block program
9	3	Practical test
10	4	Implement the program using procedures
11	4	Implement the program using functions
12	4	Implement the program using packages
13	5	Implement the program using triggers
14	5	Implement the program using cursors
15	5	Practical test

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Recoverment gathering
2	1	Title submissions
3	1	Abstract submission
4	2	Turn the idea into project
5	2	Analyse a problem
6	2	Design module
7	3	Implementation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Review I
9	3	Implementation
10	4	Build the project
11	4	Build the project
12	4	Review II
13	5	Documents corrections
14	5	Documents corrections
15	5	Display project

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 3
4	2	Lab Exercise 4
5	2	Lab Exercise 5
6	32	Lab Exercise 6
7	3	Lab Exercise 7

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 7
9	3	Lab Exercise 8
10	4	Lab Exercise 9
11	4	Lab Exercise 9
12	4	Lab Exercise 10
13	5	Lab Exercise 10
14	5	Lab Exercise 11
15	5	Lab Exercise 12

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 2
4	2	Lab Exercise 3
5	2	Lab Exercise 3
6	2	Lab Exercise 4
7	3	Lab Exercise 4

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 5
9	3	Lab Exercise 5
10	4	Lab Exercise 6
11	4	Lab Exercise 6
12	4	Lab Exercise 7
13	5	Lab Exercise 7
14	5	Lab Exercise 8
15	5	Lab Exercise 8

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Tittle Discussion
2	1	Domain Selection
3	1	Analysis
4	2	Design
5	2	creating Modules
6	2	allotting function for the modules
7	3	designing master pages, screen, and pictures for the project

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	writing code for each and every functions
9	3	writing code for each and every functions
10	4	Integration of the function
11	4	Integration of the Modules
12	4	code Testing
13	5	Functional testing
14	5	Executing the Project
15	5	Documentation

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Program - Factorial
2	1	Simple Program - prime number
3	1	Simple Program - Fibonacci series
4	2	String Functions: trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode,
5	2	String Functions: strrev,str_word_count,strcmp,strcasecmp
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
12	4	Login form
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	Phone bill preparation.
11	4	Model exam

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA614Q : OPEN SOURCE TECHNOLOGY (PHP)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Handling Web Pages: HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox-select-radiobutton-button-fileupload button-file download.
2	4	Javascript –Javascript basics –validating forms.
3	1	BASICS OF PHP:-History of PHP-Language basics:-Lexical structure-Data types-variables-Expressions and operators-flow
4	1	control statements:if,if-else,while,do-while,switch,for,foreach-Functions:defining functions-variable scope(global and local variables)-function parameters: call by reference-call by value-
5	1	return values: return single value, multiple value-handling missing parameters-default parameters
6	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strrev,str_word_count, strcmp, strc.
7	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword-constructor.
9	3	BUILT IN FUNCTIONS IN PHP: Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.
10	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime.
11	3	Handling Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
12	4	Handling Session and Cookies: Global variables:-$_Globals, $_Server, $_request, $_Post, $_files, $_Cookies, $_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table
14	5	Inserting data into the database-Updating databases-Deleting records-
15	5	Accessing the database records from PHP.

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	. Simple Queries using DDL,DML and DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Views and Snapshots
5	5	Joins
6	6	.Sub Queries
7	7	PL/SQL Block

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Procedures
9	9	Functions
10	10	Model Exam I
11	10	Packages
12	11	Triggers
13	12	Cursors
14	12	Revision
15	13	Model exam II

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	sample programs on HTML
2	1	sample programs on JAVASCRIPT
3	5	Create a Home Page using PHP and validating the form using javascript.
4	1	Sample programs on Introduction to PHP
5	1	Simple Programs (Factorial , prime number, Fibonacci series)
6	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
7	3	Arrays

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
9	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
10	5	Model exam on exercises from 1- 5
11	6	Form creation using POST method
12	7	Database Operations
13	8	Login form, Student mark list creation
14	9	Electricity bill preparation.
15	10	Model exam on exercises from 6-10

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Queries using DDL,DML and DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Practical test
5	5	Views and Snapshots
6	6	Joins
7	7	Sub Queries

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Practical Test
9	9	PL/SQL Blocks
10	10	Procedures & Functions
11	11	Practical Test
12	12	Packages
13	13	Trigger
14	14	Cursor
15	15	Model practical

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs -Factorial
2	1	Simple Programs-prime number
3	1	Fibonacci series- Fibonacci series
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops)
5	2	String Functions:(substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	3	Arrays
7	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Functions-Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	5	Create a Home Page using PHP and validating the form using javascript.
10	6	Form creation using POST method
11	7	Database Operations
12	8	Login form
13	9	Student mark list creation
14	10	Electricity bill preparation
15	10	Model Practical Test

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CA509S : RELATIONAL DATABASE MANAGEMENT SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Introduction to SQL:DDL,DML,DCL
2	4	operations string functions – number functions – date functions-selecting distinct values – working with null values –pseudo columns-aggregate functions – grouping and ordering data - integrity constraints
3	4	sub queries – joins – union ,intersect & minus – indexes – clusters – views-snapshots – sequences – synonym – users, roles and privileges – grant and revoke permission – locks.
4	1	Definition – purpose of database systems – data abstraction
5	1	data models – instances and schemes – data independence – database manager
6	1	database administrator – database users – overall system structure.
7	2	Entities and entity sets – relationships and relationship sets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	attributes – mapping constraints – keys –E-R diagram
9	2	reducing E-R diagrams to tables – generalization – aggregation.
10	3	Normalization-First Normal Form.
11	3	Second Normal Form – Third Normal Form
12	3	Boyce – Codd normal form - Fourth Normal Form
13	5	PL/SQL overview-Declarations section-Executable commands section-Exception handling section
14	5	Procedures-Functions-Packages
15	5	Triggers-Cursor Management

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA613T : COMPUTER ARCHITECTURE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	General Register organisation
2	1	Stack organisation and Addressing modes
3	1	Instruction formats
4	1	Data transfer instructions
5	2	Pipelining -arithmetic pipeline
6	2	Instruction pipeline and RISC pipeline
7	3	Addition and Subtraction algorithm

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplication and Division algorithms
9	3	Floating point operations
10	4	Peripheral devices-DMA
11	4	Daisy chaining - priority input
12	4	modes of transfer
13	5	Memory organization-Main memory
14	5	Cache memory - virtual memory
15	5	Associative memory & Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA512S : MULTIMEDIA AND VIRTUAL REALITY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: What is Multimedia: Definitions – Where to use multimedia – Introduction to Making Multimedia: What you need – Macintosh and Windows production platforms
2	1	Text: The power of meaning – About fonts and faces – Using text in multimedia – Computers and Text
3	1	Font editing and Design tools – Hypermedia and Hypertext
4	2	Sound: The power of sound – Multimedia system sounds – MIDI versus Digital Audio – Digital Audio – Making MIDI audio – Audio, File formats – Working with sound on the Macintosh
5	2	Notation Interchange File Format (NIFF) – Adding sound to your multimedia project – Toward Professional sound: The Red Book standard – Production tips.
6	2	Images: Making still Images – Color – Image file formats.
7	2	Animation: The Power of Motion – Principles of Animation – Making animations that works.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Video: Using Video – How Video works – Broadcast video standards – Integrating computers and television
9	3	Shooting and Editing Video – Video tips – Recording formats – Digital Video
10	3	Planning and Costing: Project planning – Estimating – RFPs and Bid Proposals – Designing and producing: Designing – Producing.
11	4	Introduction to virtual reality –goals of virtual reality, the human side of things, and the basic concepts of virtual reality,
12	4	Evaluation of virtual reality: Improvement of communication with computers. Early vision of virtual reality. State of virtual reality: sense of sound, touch, other senses, world creating tools
13	4	Virtual reality issues: display issues, tracking issues, manipulation issues, application issues, and navigation issues.
14	5	Application to virtual reality: 3D modeling, 3D architecture, 3D training, 3D science, 3D education, 3D shopping, 3D sports, Distributed interactive simulation, the responsive work bench
15	5	VR training programme for disable children, medicine and surgery. Introduction to Virtual Reality Modeling languages.

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic queries Supporting teaching and error correction
2	1	Simple Queries using DDL,DML and DCL Supporting teaching and error correction
3	1	Simple Queries using DDL,DML and DCL Supporting teaching and error correction
4	2	Simple Queries using DDL,DML and DCL Supporting teaching and error correction
5	2	SQL In-Built Functions Supporting teaching and error correction
6	2	SQL In-Built Functions Supporting teaching and error correction
7	3	SET Operations Supporting teaching and error correction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	SET Operations Supporting teaching and error correction
9	3	. Views and Snapshots Supporting teaching and error correction
10	4	Joins Supporting teaching and error correction
11	4	Sub Queries Supporting teaching and error correction
12	4	. PL/SQL Block Supporting teaching and error correction
13	5	Procedures Supporting teaching and error correction
14	5	Functions Supporting teaching and error correction
15	5	Packages Cursors Triggers Supporting teaching and error correction

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA615S : OPERATING SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: History of Operating system
2	1	Operating system functions
3	1	File system.
4	2	Process Management: Inter-process communication
5	2	Dead Lock - Dead Lock prerequisites
6	2	Dead Lock Strategies
7	3	Memory Management: - Single Contiguous – Fixed Partitioned

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Variable Partitions – Non-Contiguous allocations
9	3	Paging – Segmentation - Virtual Memory Management Systems.
10	4	GUI: – Components of GUI – Requirements of Windows based GUI
11	4	Security Protection: Threats – Attacks – Worms
12	4	Virus - Design principles – Authentication – Protection mechanisms – Encryption.
13	5	Unix OS: Overview of Unix-Unix File System: Users View of File System-Types of Files-Internals of File System: Logical Layout of the File-The Super Block
14	5	Structure of inode-Address Translation-run-Time Data Structure for File system: UFDT-File Table-Inode Table-System Calls: Open-Read-Write
15	5	Random Seek-Close-Create a File-Unlink a File-Change Directory. Basic Commands in Unix.

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Queries using DDL
2	1	DML and DCL
3	1	SQL In-Built Functions
4	2	SET Operations
5	2	Views and Snapshots
6	2	Joins
7	3	Sub Queries

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PL/SQL PL/SQL Block
9	3	Procedures
10	4	Functions
11	4	Functions
12	4	Packages
13	5	Triggers
14	5	Cursors
15	5	Cursors

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	Simple Programs (Factorial , prime number, Fibonacci series)
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
7	3	Arrays

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
11	4	Database Operations
12	4	Login form
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to project
2	2	literature survey
3	3	project title chosen
4	4	project design
5	5	hardware and software requirements
6	6	project implementation
7	7	testing the project

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	review-1
9	9	review-2
10	10	review-2
11	11	review-2
12	12	review-2
13	13	review-2
14	14	review-2
15	15	review-2

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LESSON PLAN

Name of the Staff	**BENJAMIN FRANKLIN I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA615S : OPERATING SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Operating Systems (OS) - History of OS (Zeroeth, First, Second, Third & Fourth Generation) - OS Functions (Data Security, Confidentiality) - Different Services of OS
2	1	User view of OS - GUI - The Kernel - Booting - Information Management - File System: Introduction - Disk Basics - Block and Block numbering scheme
3	1	Disk Space Allocation methods (Contiguous & Non-contiguous Allocation) - Directory Structure : User view - Actual view Revision and Class Test
4	2	Process Management: Multiprogramming - Context Switching - Different states of the process - Process state transition - Process Control Block - Operations on processes - Scheduling policy (Pre-emptive, Non-preemptive scheduling)
5	2	Levels of scheduling (Long-term, Medium-term, Short-term) - Short term scheduling policies (Round Robin, Scheduling based on priority, Priority Class and Heuristic) - Inter-process communication
6	2	Deadlock: Deadlock pre-requisites (Mutual exclusion, Hold & Wait, No Pre-emption, Circular wait) - Deadlock methods (or) strategies of Deadlock (Ignore, Recover, Prevent, Avoid, Detect) Revision and Class Test
7	3	Memory Management: Real Memory Management - Contiguous Real Memory Management - Non-contiguous Real Memory Management (Paging, Segmentation)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Virtual Memory Management System (VMMS): Locality of reference - Page fault - Page replacement policy - Dirty page & Dirty bit - Working set - Demand paging
9	3	Data structures required: Page Map Table (PMT) - File Map Table (FMT) - Relocation address Translation - Local Replacement Policy Revision and Class Test
10	4	Graphical User Interface: Windowing Technology - Components of GUI (Menu Bars, Scroll Bars, Controls, Dialog Box, Feedback) - Authentication (Password, Artifact-based, Human Characteristics)
11	4	Security & Prevention: Threats - Attacks on security - Virus (Transient, Resident) - Different stages of the virus - Virus Detection, Removal, Prevention - Worms - Mode of operations of worms
12	4	Safeguard against worms - Design principles in security - Encryption - Different encryption & Decryption Algorithm - Security in a distributed environment - Digital Signature Revision and Class Test
13	5	Overview of UNIX - UNIX File System - Different types of files - The internals of File System - Logical Layout of the System Architecture
14	5	The Structure of Inode - Address Translation - Runtime Data structures for file system - User File Descriptor Table (UFDT) - File Table
15	5	Inode Table - System Calls - Basic Commands in UNIX Overall revision and Model test

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**BENJAMIN FRANKLIN I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA511 : DATA COMMUNICATION NETWORKS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to networks - Basics of networks Networks - Applications of Networks - Distributed Processing - Advantages of Distributed Processing
2	1	Protocols - Elements of Protocols - Standards - Types of Standards - Line Configuration
3	1	Topologies of Network - Transmission Mode - Categories of Networks - Internetworks -Revision and Class Test
4	2	Introduction to OSI Model - Layered Architecture of OSI - Functions of the Layers - TCP/IP protocol suite
5	2	Signals - Analog and Digital Signals - Periodic and Aperiodic Signals -Analog Signals - Digital Signal
6	2	ata Transmission - Data Terminal Equipment - Data Circuit Terminal Equipment - Introduction to Modems - Types of Modems - Revision and Class Test
7	3	Introduction to Transmission Media - Guided Media - Types of Guided Transmission Medium - Unguided Media - Types of Unguided Transmission Medium -Transmission Impairments - Media Comparison.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplexing - Frequency Division Multiplexing (FDM) - Time Division Multiplexing (TDM) - Wave Division Multiplexing (WDM) - Error Detection and Correction - Types of Errors
9	3	Error Detection Techniques - Vertical Redundancy Check (VRC) -Longitudinal Redundancy Check (LRC) - Cyclic Redundancy Check (CRC) - Checksum - Error Correction. - Revision and Class Test
10	4	Introduction to Switching Techniques - Circuit Switching - Space Division Switches - Crossbar and Multistage Switches - Time Division Switches - Time Slot Interchange (TSI) - TDM Bus
11	4	Packet Switching - Datagram Approach - Virtual Circuit Approach - Switched Virtual Circuit Approach - Message Switching
12	4	Networking and Internetworking Devices - Repeaters - Bridges - Simple Bridge - Multiport Bridges - Routers - Gateways. - Revision and Class Test
13	5	Introduction to Routing - Introduction to Routing Algorithms - Types of Routing Algorithms - Distance Vector Routing
14	5	Link State Routing - Introduction to Data Link Control - Line Discipline - ENQ/ACK - Poll/Select
15	5	Flow Control - Stop-and-Wait - Sliding Window - Error Control - Stop-and-Wait ARQ - Sliding Window ARQ - Overall revision and Model test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple student bio data
2	1	Color chooser using standard control.
3	1	Notepad Application.
4	2	Login Form Creation using Ms Access.
5	2	Sending a request from one page to another using session. simple website for an organization using Master Page.
6	2	Sending a request from one page to another using session. simple website for an organization using Master Page.
7	3	Sending a request from one page to another using session. Simple website for an organization using Master Page.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
9	3	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
10	4	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
11	4	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
12	4	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
13	5	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
14	5	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
15	5	Database application for student mark list processing using validation control (Oracle) Database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs -Factorial
2	2	Simple Programs- prime number
3	3	Simple Programs- Fibonacci series
4	4	String Functions:- trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,
5	5	String Functions:-strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp
6	6	Arrays-Program
7	7	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	9	Create a Home Page using PHP and validating the form using javascript.
10	10	Form creation using POST method
11	11	Database Operations
12	12	Login form
13	13	Student mark list creation
14	14	Electricity bill preparation.
15	15	Electricity bill preparation.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	System Analysis-Requirement Gathering
2	1	Requirement Analysis-Initiating
3	1	Requirement Analysis-eliciting
4	2	Designing the Project
5	2	Structured and Un-Structured Design
6	2	UML Designing
7	3	Decision on Software to be used-Coding

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Decision on Software to be used-Coding-Interfaces and Imports
9	3	Decision on Software to be used-Coding-Interfaces and Imports
10	4	Testing-System Testing
11	4	White Box Testing
12	4	Black Box Testing
13	5	Maintenance Check
14	5	Quality Assurance Check
15	5	Feed Back-Report Generation

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To develop simple student bio data
2	1	To develop simple student bio data
3	1	Create a color chooser using standard control.
4	2	Create a color chooser using standard control.
5	2	To develop Notepad Application
6	2	To develop Notepad Application
7	2	Login Form Creation using Ms Access

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create an application to send a request from one page to another using session
9	3	Create an application to send a request from one page to another using session
10	4	Create a web page for an Organisation using Master Page
11	4	Create a web page for an Organisation using Master Page
12	4	Develop Database Application for Student Mark list Processing using Validation Control
13	5	Develop Database Application for Telephone Directory
14	5	Develop Database Application for Telephone Directory
15	5	Develop Database Application for Telephone Directory

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA616T : SOFTWARE ENGINEERING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Software Engineering: Evolving role of Software
2	1	Characteristics of Software ,Software Myths
3	1	Process Models: Waterfall Model, Evolutionary Process Model
4	2	Requirement Engineering: Tasks
5	2	Initiating the Requirements Engineering Process
6	2	Eliciting Requirements
7	3	Building Analysis Model: Requirement Analysis, Data Modeling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Flow Oriented Modeling
9	3	Class based Modeling, Creating a Behavioural Model
10	4	Testing: Software Testing Methods
11	4	Software Testing Strategies, White Box Testing, Basis Path Testing
12	4	Control Structure Testing, Black Box Testing
13	5	Project Management: Project Management Spectrum, Formal Technical Reviews
14	5	Software Change Management Process
15	5	Clean Room Software Engineering Specification, Design and Testing

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	Simple Programs (Factorial , prime number, Fibonacci series)
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Home Page using PHP and validating the form using javascript
9	3	Form creation using POST method
10	4	Database Operations
11	4	Database Operations
12	4	Login form
13	5	Student mark list creation
14	5	Student mark list creation
15	5	Electricity bill preparation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Queries using DDL DMLand DCL
2	1	SQL In Built Function
3	1	Set operation
4	2	Practical test
5	2	Sample programs using joins
6	2	Views and snapshots
7	3	Manipulate program using sub queries

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PL/SQL Block program
9	3	Practical test
10	4	Implement the program using procedures
11	4	Implement the program using functions
12	4	Implement the program using packages
13	5	Implement the program using triggers
14	5	Implement the program using cursors
15	5	Practical test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample program using console application
2	1	1. To develop simple student bio data 2. To develop calculator program using windows application
3	1	1. Create a color chooser using standard control. 2. practical test
4	2	1. To develop Notepad Application. 2. To develop student mark-list using windows application
5	2	4. Login Form Creation using Ms Access.
6	2	Sample programs in C#
7	3	Test in practical program

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	WEB application sending a request from one page to another session
9	3	Create simple website using master page
10	4	Model practical
11	4	Create Students marklist using database
12	4	Create a website using validation controls
13	5	Create a program using AdRotator and calendar WEB controls
14	5	To develop a telephone directory program working with Grid controls
15	5	Revision

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA613T : COMPUTER ARCHITECTURE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit: General register and stack organization
2	1	Instruction formats - Addressing modes
3	1	Data Transfer and Manipulation.
4	2	Pipelining and Arithmetic Pipelining
5	2	Instruction pipelining.
6	2	RISC pipelining.
7	3	UNIT- III [15Hrs] Computer Arithmetic : Addition and subtraction -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplication and Division Algorithms -
9	3	Floating point Addition and Subtraction.
10	4	Input-Output organization : Peripheral Devices
11	4	I/O Interface - Asynchronous data transfer - Modes of transfer
12	4	Priority interrupt - Direct memory access .
13	5	Memory Organization : Memory hierarchy - Main memory
14	5	-Auxiliary memory - Associative
15	5	Cache and Virtual memory .

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	. String Functions: (trim,ltrim,rtrim,strtolower,strtoupper).
3	1	String Functions: (ucfirst,ucwords,strops,substr,chartocode, strlen)
4	2	String Functions: (strrev,str_word_count,strcmp,strcasecmp)
5	2	PHP programs using Arrays
6	2	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
8	3	Create a Home Page using PHP and validating the form using javascript.

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Form creation using POST method
10	4	Database Operations
11	4	model practical
12	4	Electricity bill preparation.
13	5	Student mark list creation
14	5	Login form
15	5	model practical
7	2	Date and Time functions:- strtotime,mktime,data_default_timezone_set.

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Recoverment gathering
2	1	Title submissions
3	1	Abstract submission
4	2	Turn the idea into project
5	2	Analyse a problem
6	2	Design module
7	3	Implementation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Review I
9	3	Implementation
10	4	Build the project
11	4	Build the project
12	4	Review II
13	5	Documents corrections
14	5	Documents corrections
15	5	Display project

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 3
4	2	Lab Exercise 4
5	2	Lab Exercise 5
6	32	Lab Exercise 6
7	3	Lab Exercise 7

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 7
9	3	Lab Exercise 8
10	4	Lab Exercise 9
11	4	Lab Exercise 9
12	4	Lab Exercise 10
13	5	Lab Exercise 10
14	5	Lab Exercise 11
15	5	Lab Exercise 12

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 2
4	2	Lab Exercise 3
5	2	Lab Exercise 3
6	2	Lab Exercise 4
7	3	Lab Exercise 4

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 5
9	3	Lab Exercise 5
10	4	Lab Exercise 6
11	4	Lab Exercise 6
12	4	Lab Exercise 7
13	5	Lab Exercise 7
14	5	Lab Exercise 8
15	5	Lab Exercise 8

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	2	. String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	. String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	3	Arrays
6	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.Date and Time functions:-strtotime,mktime,data_default_timezone_set
7	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.Date and Time functions:-strtotime,mktime,data_default_timezone_set

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Create a Home Page using PHP and validating the form using javascript
9	5	Create a Home Page using PHP and validating the form using javascript
10	6	Form creation using POST method
11	6	Form creation using POST method
12	7	Database Operations
13	8	Login form
14	9	Student mark list creation
15	10	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	. Simple Queries using DDL,DML and DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Views and Snapshots
5	5	Joins
6	6	.Sub Queries
7	7	PL/SQL Block

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Procedures
9	9	Functions
10	10	Model Exam I
11	10	Packages
12	11	Triggers
13	12	Cursors
14	12	Revision
15	13	Model exam II

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CA509S : RELATIONAL DATABASE MANAGEMENT SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Database Management System: Definition – purpose of database systems – data abstraction –.
2	4	Introduction to SQL:DDL,DML,DCL operations – integrity constraints – string functions – number functions
3	1	data models – instances and schemes – data independence – database manager .
4	1	database administrator – database users – overall system structure.
5	4	date functions-aggregate functions – selecting distinct values – working with null values –pseudo columns – grouping and ordering data
6	4	sub queries – joins – union ,intersect & minus – views-snapshots
7	2	Entity – Relationship Model: Entities and entity sets – relationships

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	relationship sets – attributes – mapping constraints – keys
9	2	E-R diagram – reducing E-R diagrams to tables – generalization – aggregation.
10	4	indexes – clusters – sequences – synonym – users, roles and privileges – grant and revoke permission – locks.
11	3	Normal Forms: First Normal Form – Second Normal Form – Third Normal Form –
12	3	Boyce – Codd normal form - Fourth Normal Form
13	5	Introduction to PL/SQL: PL/SQL overview-Declarations section-Executable commands section-
14	5	-Exception handling section-Procedures-Functions
15	5	Packages-Triggers-Cursor Management.

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA614Q : OPEN SOURCE TECHNOLOGY (PHP)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASICS OF PHP:-History of php-Language basics:-Lexical structure-Data types- variables-Expressions and operators.
2	1	Flow control statements:if,if-else,while,do-while,switch,for,foreach-Functions:defining functions-variable scope(global and local variables).
3	1	Function parameters: call by reference-call by value-return values: return single value, multiple value-handling missing parameters-default parameters.
4	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strrev,str_word_count, strcmp, strc.
5	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.
6	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword- constructor.
7	3	Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime. Handling
9	3	Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
10	4	HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox.
11	4	Select-radiobutton-button-fileupload button-file download. Javascript –Javascript basics –validating forms.
12	4	Handling Session and Cookies: Global variables:-$_Globals, $_Server, $_request, $_Post, $_files, $_Cookies, $_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table.
14	5	Inserting data into the database-Updating databases.
15	5	Deleting records- Accessing the database records from PHP.

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs -Factorial
2	1	Simple Programs-prime number
3	1	Fibonacci series- Fibonacci series
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops)
5	2	String Functions:(substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	3	Arrays
7	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Functions-Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	5	Create a Home Page using PHP and validating the form using javascript.
10	6	Form creation using POST method
11	7	Database Operations
12	8	Login form
13	9	Student mark list creation
14	10	Electricity bill preparation
15	10	Model Practical Test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about Project
2	2	Title and Platform confirmation
3	3	Project planning
4	4	Requirements Analysis
5	5	Analysis
6	6	Design
7	7	Development

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Testing
9	9	Documentation
10	10	Documentation Verification
11	11	Project Correction and Finalizing
15	15	Project Model Viva-Voce-II
12	12	Documentation Completion and Correction
13	13	Project Implementation
14	14	Project Model Viva-Voce-I

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA512A : COMPUTER GRAPHICS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to computer Graphics: Video display devices – Raster scan system – Random Scan System – color CRT, Flat panel display.
2	1	Interactive input Devices – Hard copy devices – Graphics software – Output primitives
3	2	line drawing algorithms –DDA algorithm,Bresenham;s Algorithm- initializing lines – Line function – circle Generating algorithms.(Mid-point algorithm)
4	2	Output Primitives: Attributes of output Primitives – line attributes(Lisne sixe,color,type)
5	2	Color and Grayscale style – Area filing algorithms – Character attributes -Inquiry functions
6	2	Two dimensional transformations – Basic transformation – Translation,rotation,Scaling
7	2	composite transformation – Matrix representation –Other transformations-shear,reflection.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	2D Concepts: Two – dimensional viewing –interactive input methods – Physical Input devices – logical classification of input devices –
9	3	window – to view port co-ordinate transformation
10	3	clipping algorithms -interactive picture construction methods.
11	4	3D Concepts: Three – dimensional concepts – Three dimensional display methods
12	4	parallel Projection –Perspective projection
13	4	Depth Cueing – Visible line and surface identification.
14	5	Transformations: Three dimensional transformations
15	5	Three dimensional viewing – Projection – Viewing transformation – implementation of viewing operations.

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic queries Supporting teaching and error correction
2	1	Simple Queries using DDL,DML and DCL Supporting teaching and error correction
3	1	Simple Queries using DDL,DML and DCL Supporting teaching and error correction
4	2	Simple Queries using DDL,DML and DCL Supporting teaching and error correction
5	2	SQL In-Built Functions Supporting teaching and error correction
6	2	SQL In-Built Functions Supporting teaching and error correction
7	3	SET Operations Supporting teaching and error correction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	SET Operations Supporting teaching and error correction
9	3	. Views and Snapshots Supporting teaching and error correction
10	4	Joins Supporting teaching and error correction
11	4	Sub Queries Supporting teaching and error correction
12	4	. PL/SQL Block Supporting teaching and error correction
13	5	Procedures Supporting teaching and error correction
14	5	Functions Supporting teaching and error correction
15	5	Packages Cursors Triggers Supporting teaching and error correction

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Queries using DDL
2	1	DML and DCL
3	1	SQL In-Built Functions
4	2	SET Operations
5	2	Views and Snapshots
6	2	Joins
7	3	Sub Queries

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PL/SQL PL/SQL Block
9	3	Procedures
10	4	Functions
11	4	Functions
12	4	Packages
13	5	Triggers
14	5	Cursors
15	5	Cursors

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. C program to find the odd or even numbers for the range of given number. 2. C program to find the sum of series
2	1	3. C program to generate the Fibonacci series 4. C program to check whether the given year is leap year or not.
3	1	5. C program to reverse a given number. 6. C program to find the given number is Armstrong or not.
4	2	7. C program to display the following output 8. C program to find the largest number among the three numbers.
5	2	9. C program to find whether the person is eligible to vote or not
6	2	10. C program to display the grade of the student by using conditional statement 11. C program to display the arithmetic manipulation using Switch statement
7	3	12. C program to find out the Factorial with and without using recursive function.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	13. C program to add a 2 numbers by using all functions. 14. C program to swap 2 numbers without using the temporary variables.
9	3	15. C program to find the length of the string with and without using string function.
10	4	16. C program to check whether the given string is Palindrome or not.
11	4	17. c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2)
12	4	18. C program to generate the numbers in ascending order.
13	5	19. C program to display the name, age ,mark, average and total for the 5 students By structure using array.
14	5	20 C program to swap 2 numbers using pointer.
15	5	(c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CAP202T : PRACTICAL - II PROGRAMMING IN C ++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using Classes and Objects
2	2	Program using Classes and Objects
3	3	Program using Constructor
4	4	Program using Destructor
5	5	Program using Function overloading and Inline functions
6	6	Program using Operator Overloading
7	7	Program using Inheritance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	7	Program using friend functions
9	8	Program using friend functions
10	8	Program using friend functions
11	9	Implement PUSH, POP Operations of Stack using Arrays.
12	9	Implement PUSH, POP Operations of Stack using Arrays.
13	10	Implement insert, delete Operations of a queue using Arrays.
14	10	Conversion of infix to postfix using stacks Operations
15	10	Binary tree traversals using recursion

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Write a C program to find the odd or even numbers for the range of given number. 2. Write a C program to find the sum of series statement
2	1	3. Write a C program to generate the Fibonacci series 4. Write a C program to check whether the given year is leap year or not.
3	1	5. Write a C program to reverse a given number. 6. Write a C program to find the given number is Armstrong or not.
4	2	7. Write a C program to display the following output (a) * * * *** (b) 1 1 2 1 2 3 (c) 1 2 2 3 3 3 (d) 3 3 3 2 2 1 8. Write a C program to find the largest number among the three numbers.
5	2	9. Write a C program to find whether the person is eligible to vote or not 10. Write a C program to display the grade of the student by using conditional
6	2	11. Write a C program to display the arithmetic manipulation using Switch statement
7	3	12. Write a C program to find out the Factorial with and without using recursive function.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	13. Write a C program to add a 2 numbers by using all functions.
9	3	14. Write a C program to swap 2 numbers without using the temporary variables.
10	4	15. Write a C program to find the length of the string with and without using string function.
11	4	16. Write a C program to check whether the given string is Palindrome or not.
12	4	17. Write a c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2) (c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)
13	5	18. Write a C program to generate the numbers in ascending order.
14	5	19. Write a C program to display the name, age ,mark, average and total for the 5 students By structure using array.
15	5	20. Write a C program to swap 2 numbers using pointer.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CAP202T : PRACTICAL - II PROGRAMMING IN C ++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using Classes and Objects
2	1	Program using Constructor and destructor
3	1	Program using Function overloading and Inline functions
4	2	Program using Operator Overloading
5	2	Program using Inheritance
6	2	Program using friend functions
7	3	Programs using Data Structure Concepts: Implement PUSH, POP Operations of Stack using Arrays.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implement PUSH, POP Operations of Stack using Arrays
9	3	Implement insert, delete Operations of a queue using Arrays.
10	4	Implement insert, delete Operations of a queue using Arrays.
11	4	Conversion of infix to postfix using stacks Operations
12	4	Conversion of infix to postfix using stacks Operations
13	5	Conversion of infix to postfix using stacks Operations
14	5	Binary tree traversals using recursion
15	5	Binary tree traversals using recursion

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CA101S : PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to C, Identifiers, Variables, Library function
2	1	Structure of C Program, data types,Keywords, Expressions, Simple C programs
3	1	Operators, Precedence of operator, Constants ,Odd or Even program
4	2	Formatted input and output function, Simple if statement, Largest among three numbers program, Leap year program
5	2	while loop, do-while, for, Armstrong number program , Reverse a number program, pattern display program
6	2	for, switch-case, arithmetic manipulation program, goto , break and continue
7	3	User defined functions, Call by value, function prototype

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	call by reference, Arrays, Matrix manipulation program, Sorting program
9	3	Recursion , Storage classes, Factorial program
10	4	String Manipulation, Strlen, strrev , strcmp functions
11	4	Structure and union , Pointers, Array with in structure
12	4	Palindrome checking , Arrays as function argument
13	5	Student mark list program, addition of two numbers using pointer program
14	5	arrays of pointers, array of structure, function with structure, Student mark list program
15	5	Files and its operations

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ODD or EVEN number Sum of Series
2	1	Largest among 3 numbers Fibonacci series
3	1	Leap year or not The person is Eligible for vote or not
4	2	Reverse a Number Armstrong number
5	2	Pattern display 1 12 123
6	2	Arithmetic Manipulation using switch case statement
7	3	Factorial without function

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sapping without temporary variable
9	3	Length of the string
10	4	Palindrome checking program
11	4	Matrix Addition and subtrction
12	4	Matrix Multiplication
13	5	Adding two numbers using pointer
14	5	Ascending order
15	5	Student Mark list using structure

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LESSON PLAN

Name of the Staff	**MERCY ANTHONY**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**ASCA202T : STATISTICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Measures of central tendency - Arithmetic Mean , Median , Mode
2	1	Harmonic mean and Geometric mean. Measures of dispersion - Range, Quartile deviation
3	1	Mean deviation, Standard deviation and co-efficient of variation
4	2	Measures of skewness - Karl pearson's
5	2	Bowley's and Kelly's coefficient -discrete series
6	2	Kelly's coefficient - continuous series . Kurtosis
7	3	Correlation analysis - Karl Pearson's coefficient of correlation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Spearman's rank correlation
9	3	Regression analysis
10	4	Test of significance (small sample) based on t
11	4	F distribution with respect to mean and variance
12	4	Correlation coefficient. Test of significance based on Chi square
13	5	Test of significance (large sample) based on population proportion
14	5	Test of significance (large sample) based on Mean
15	5	Test of significance (large sample) based on variance and correlation coefficient

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LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**ASCA202T : STATISTICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
7	3	CORRELATION ANALYSIS: KARL PEARSON'S COEFFICIENT OF CORRELATION
8	3	SPEARMAN'S RANK CORRELATION COEFFICIENTS
9	3	REGRESSION ANALYSIS: SIMPLE REGRESSION EQUATIONS
10	4	TESTS OF SIGNIFICANCE (SMALL SAMPLES)
11	4	BASED ON T, F DISTRIBUTIONS WITH RESPECT OF MEAN VARIANCE AND CORRELATION COEFFICIENT
12	4	TEST OF SIGNIFICANCE BASED ON CHI-SQUARE TEST: TEST FOR INDEPENDENCE OF ATTRIBUTES
13	5	TEST OF SIGNIFICANCE (LARGE SAMPLES)

Cycle	Unit	Topics to be covered / Activity to be carried out
14	5	BASED ON POPULATION PROPORTION, MEAN, VARIANCE
15	5	CORRELATION COEFFICIENT
1	1	MEASURES OF CENTRAL TENDENCY: ARITHMETIC MEAN, MEDIAN, MODE, HARMONIC MEAN
2	1	GEOMETRIC MEAN. MEASURES OF DISPERSION: RANGE, QUARTILE DEVIATION, MEAN DEVIATION
3	1	STANDARD DEVIATION AND COEFFICIENT OF VARIATION
4	2	MEASURES OF SKEWNESS: KARL PEARSON'S COEFFICIENT OF SKEWNESS
5	2	BOWLEY'S COEFFICIENT OF SKEWNESS
6	2	KELLY'S COEFFICIENT OF SKEWNESS. KURTOSIS

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CA204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Data structure Definition , primitive and composite Data Types
2	1	Arrays, Operations on Array
3	1	Operations on Array, Ordered lists.
4	2	Stacks ,Applications of Stack
5	2	Infix to Post-fix Conversion, Recursion, Maze Problems
6	2	Queues, Operations on Queues, Queue Applications, Circular Queue.
7	3	Singly Linked List, Operations, Application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Representation of a Polynomial, Polynomial Addition, Doubly Linked List
9	3	Operations, Applications, Ordering Books in a Library (Alphabetical Ordering)
10	4	Binary Trees, Representation
11	4	Conversion of Forest to Binary Tree
12	4	Tree Traversals
13	5	Graph Definition, Types of Graphs
14	5	Graphs Representation, Graph Traversal
15	5	Shortest Path (Dijkstra's Algorithm.)

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LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananooru Ahananooru
2	1	Kurunthogai Katrina Paripadal
3	3	Pathinen keelkanakku noolhal
4	3	Pathinen keelkanakku noolhal
5	4	Sangakalam, Ettuthogai noolhal
6	4	Pathu pattu
7	3	Thirukural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Vinnappangal Kadithangal Surukkivaraithal
9	5	Seithiseharaiththal Nerkanal
10	4	Atruppadai noolgal
11	4	Atruppadai noolgal
12	2	Pattinappalai
13	2	Sirubanatruppadai
14	2	Madurai kanchi
15	2	Mullaipattu

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CA102T : DIGITAL LOGIC FUNDAMENTALS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Number System: Binary number system - The Basic Gates Boolean Laws and Theorem –
2	1	Boolean Algebra - Universal Gates
3	1	Number system and its convertions.
4	2	Simplification: Sum of products - Product of Sums.
5	2	K-map simplifications - Don't care conditions.
6	2	QuineMcclausky tabulation method.
7	3	Combinational Arithmetic Circuits: Adders-Subtractors.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	full adder-subtractor-BCD Adder-
9	3	ROM-PLA-Designing circuits using ROM/PLA.
10	4	Combinational Logic Circuits: Multiplexers-Demultiplexers.
11	4	Decoders: 1 of 16 Decoders.
12	4	Encoders.
13	5	Sequential Logic Circuit: Flip-Flops - Its types - RS Flip flop, JK Flip flop, D Flip flop, T and Master Slave. .
14	5	Counters and its types .
15	5	Shift Registers and its types.

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CA203Q : OBJECT ORIENTED PROGRAMMING USING C++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	C++ fundamentals: Introduction to C++: Tokens, Keywords, Identifiers, Variables
2	1	Operators, Expressions and Control Structures
3	1	Arrays in C++ - CIN-COUT.
4	2	Principles of Object Oriented Programming(OOP): Evolution of C++
5	2	Programming Paradigms – Key Concepts of OOP – Advantages of OOP
6	2	Usage of OOP and C++.
7	3	OOPS Fundamentals: Classes and Objects

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Constructors and Destructors; and Type of Constructors
9	3	Inheritance: Single Inheritance – Multilevel inheritance – Multiple inheritance – Hierarchical Inheritance – Hybrid Inheritance.
10	4	Functions: Inline Functions – Friend Function-Virtual Function-Polymorphism: Function Overloading
11	4	Operator Overloading-Input and Output in C++ - Streams-Stream classes
12	4	Formatted and Unformatted console I/O operations-Member functions of istream class-manipulators-manipulators with parameters
13	5	Working with Files: Classes for File Stream Operations – Opening and Closing a File
14	5	End-of-File Detection – File Pointers – Updating a File
15	5	Error Handling during File Operations – Command-line Arguments.

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CAP202T : PRACTICAL - II PROGRAMMING IN C ++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using Classes and Objects
2	1	Program using Constructor and destructor
3	1	Program using Function overloading
4	2	Inline functions
5	2	Program using Operator Overloading
6	2	Program using Inheritance
7	3	Program using friend functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implement PUSH, POP Operations of Stack using Arrays.
9	3	Implement PUSH, POP Operations of Stack using Arrays.
10	4	Implement insert, delete Operations of a queue using Arrays.
11	4	Implement insert, delete Operations of a queue using Arrays.
12	4	Conversion of infix to postfix using stacks Operations.
13	5	Conversion of infix to postfix using stacks Operations.
14	5	Binary tree traversals using recursion
15	5	Binary tree traversals using recursion

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1 PURANANOORU 1.2 AGANANOORU
2	1	KURUNTHOGAI NATRINAI PARI PAADAL
3	4	ILAKKIYA VARALAARU PATHINENKEEZH KANAKKU NOOLGAL
4	4	ILAKKIYA VARALAARU PATHINENKEEZH KANAKKU NOOLGAL
5	4	ILAKKIYA VARALAARU 4.2 SANGAKAALAM (MUCHANGANGAL, ETTUTHOGAI, PATHTHUPPAATTU),
6	4	ILAKKIYA VARALAARU SANGAKAALAM (MUCHANGANGAL, ETTUTHOGAI, PATHTHUPPAATTU)
7	3	THIRUKKURAL 3.3 THERINTHU SEYAL VAGAI, VINAI SEYAL VAGAI, PORUL SEYAL VAGAI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHI THIRAN 5.1 VINNAPPANGAL 5.2 KADITHANGAL 5.3 SURUKKI VARAITHAL
9	5	MOZZHI THIRAN 5.4 SEITHI SEGARIPPU 5.5 NER KAANAL
10	4	ILAKKIYA VARALAARU 4.3 AATRUPPADAI
11	4	ILAKKIYA VARALAARU 4.3 AATRUPPADAI
12	2	PATHTHUPPATTU 2.1 PATTINAPPALAI
13	2	PATHTHUPPATTU 2.2 SIRUPAANAATRUPPADAI
14	2	PATHTHUPPAATTU 2.3 MATHURAI KAANJI
15	2	PATHTHUPPAATTU 2.4 MULLAI PAATTU

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BHARATHADESAM -BHARATHIYAR
2	1	ULLAGAPPAN PAATTU- BHARATHIDASAN, YESUKAVIYAM --- OOTHARIPILLAI- KANNADASAN
3	1	DESAPITHAVUKKU ANJALI -- M MEHATHA
4	1	KURUTHU- SIRUKATHAI INTHUMATHI PUTHIYAERPADU-- VAIRAMUTHU
5	3	PARISU- VINAYAGAMURTHY SEVVAZHAI-ARINJAR ANNA
6	5	ILLAKKANAM - ANNIGAL
7	5	VALLOTRU MIGUM,, MIGA IDANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	SILAPATHIGARAM- ADAIKALA KAATHAI
9	2	MANIMRGALAI- CHAKARAVALAKKOTTAM KAMBARAMAYANAM-VAKKI VATHAI PADALAM
10	2	THIRUKOTHUMBI-- MANIKKAVASAGAR PARABARAKANNNI-- THAYUMAANNAVAR
11	2	KUTRAALAKURAVANJI-- THIRIKUDARASAPPAKAVIRAYAR
12	4	URRAINADAII-- M.V. NALVAZHVU
13	4	PANNPAADU-- URAINADAI
14	4	POTHUMAI ORR ARAM-- URAINADAI
15	4	NEENTHYUGA--- URAINADAI

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LESSON PLAN

Name of the Staff	**DEVI SHYAMALA MARY C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**AMTCA101 : MATHEMATICAL FOUNDATIONS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conjunction, disjunction, negation, conditional and bi conditional operator,converse,inverse,contra positive
2	1	Logically equivalent, tautalogy, contradiction
3	1	Arguments validity of arguments
4	2	Set theory
5	2	Relations
6	2	Functions
7	3	Binary operations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Permutations
9	3	Combinations mathematical induction
10	4	Types of matrices, operations on matrix, simple problems, singular and non singular matrices
11	4	Adjoint,inverse, symmetric and skew symmetric
12	4	Hermitian, orthogonal, unitary.cosistency : three methods
13	5	Characteristic roots and vector
14	5	Problems on Cayley Hamilton theorem
15	5	Matrix linear transformation, reflection about x axis ,y axis,line y=x,y=-x, rotation through an angle , expression, compression,shears, translation, successive transformation

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INDIAN WOMAN
2	1	THE SOLITARY REAPER
3	1	THE PURPLE DRESS
4	2	EFFECTIVE COMMUNICATION BASIC SKILLS
5	2	GROUP DISCUSSION INTERVIEW
6	2	BOOKING HOTEL ACCOMMDATION
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GIVE US ROLE MODEL SOWALI
9	3	J.R.D WORDS OF INSPIRATION
10	4	BUSINESS COMMUNICATION BUSINESS PRESENTATION
11	4	SOFT SKILLS
12	5	BUSINESS LETTERS
13	5	PREPARE FOR RESUME
14	0	II CIA EXAM
15	0	REVISION

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The character is Destiny - Dr.S.Radha krishnan-prose
2	1	All The World is a Stage - William Shakespeare
3	1	The Never Never Nest - Cedric mount -play
4	2	communication skills with Greetings and Introducing Agreeing and dis agreeing persuading and debating
5	2	Business communication Handling customers orders and complaints call
6	5	Note-making Report writing
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mallala Yousafzai Pakistani Activist – Naomi Blumberg (Biography
9	3	The Monkey's Paw – W.W Jacob (One – Act Play)
10	4	1. Effective Listening 2. Understanding the Audience 3. Perceptual Clarity 4. Channel Awareness 5. Role of Non – Verbal Communication
11	4	6. Pragmatics 7. Handling Delivery and After – Sales Problems 8. Taking Part in Teleconferences 9. Tele – Interviews
12	3	1. The Gift of the Magi – O'Henry (Short Story)
13	5	Publicity literature brochure and advertisement
14	0	II CIA EXAM
15	4	REVISION AND CLASS TEST

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Women - S. Radhakrishnan
2	1	The solitary reaper-William Wordsworth THE PURPLE DRESS -O HENRY
3	2	Effective communication Face to face communication
4	2	Basic skills for talking to people Receiving visitors
5	2	GROUP DISCUSSION preparing for interview
6	2	talking interview promotion interview
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GIVE US A ROLE MODEL -DR.A.P,J KALAM SOWALI-MAHASWETA DVI
9	3	J.R..D.'S WORDS OF INSPIRATION TO SUDTHA MURTHY
10	4	BUSINESS CONVERSATION BUSINESS PRESENTATION
11	4	SOFT SKILLS TEAM MAINTENANCE AND ROLES
12	5	STANDARD BUSINESS LETTERS RESUME WRITING
13	5	ASSIGNMENT SEMINAR GROUP DISCUSSION
14	0	II CIA EXAM
15	0	REVISION

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LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Inviting someone 2. Expressing Gratitude
2	1	3. Complimenting and Congratulating
3	1	4. Starting a conversation with a stranger.
4	1	5. Asking for help 6. Framing Questions and Answers
5	1	7. Apologising 8. Making Request
6	2	1. Audio – Video lessons 2. Telephonic communication / Business
7	2	3. Conversational skill 4. Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	3	1. Building powerful vocabulary 2. Coining related words
10	3	3. Acronym 4. Mispronounced words
11	4	1. Extempore
12	4	2. Elocution
13	5	1. Description 2. Narration
14	2	II CIA
15	5	3. Paragraph Writing

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LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling Quiz game
3	2	Seminar Debate
4	2	Group Discussion
5	3	Book Review
6	3	Film Review
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Speech on Current Events
9	4	Welcome Address
10	4	Vote of Thanks Report Writing
11	5	Narrating Dreams
12	5	Narrating Ambition
13	5	Narrating Ambition
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

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LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	2. The solitary Reaper - William Wordsworth
2	1	1. Indian Women - s. Radhakrishnan
3	1	1. Indian Women - s. Radhakrishnan
4	1	3. The purple dress - o' Henry
5	1	3. The purple dress - o' henry
6	1	Revision
7	1	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	1. Give us a Role Model - Dr. A.P.J. Abdul kalam
9	3	1. Give us a Role Model - Dr. A.P.J. Abdul kalam
10	3	2. Sowali - mahasweta devi
11	3	3.J.R.D's Words of Inspiration to Sudha Murthy
12	3	3.J.R.D's Words of Inspiration to Sudha Murthy
13	2	Revision
14	2	II CIA
15	1	Overall revision

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. C program to find the odd or even numbers for the range of given number. 2. C program to find the sum of series
2	1	3. C program to generate the Fibonacci series 4. C program to check whether the given year is leap year or not.
3	1	5. C program to reverse a given number. 6. C program to find the given number is Armstrong or not.
4	2	7. C program to display the following output 8. C program to find the largest number among the three numbers.
5	2	9. C program to find whether the person is eligible to vote or not
6	2	10. C program to display the grade of the student by using conditional statement 11. C program to display the arithmetic manipulation using Switch statement
7	3	12. C program to find out the Factorial with and without using recursive function.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	13. C program to add a 2 numbers by using all functions. 14. C program to swap 2 numbers without using the temporary variables.
9	3	15. C program to find the length of the string with and without using string function.
10	4	16. C program to check whether the given string is Palindrome or not.
11	4	17. c program for the following matrices (a) Addition Matrix (3X3) (b) Subtraction Matrix (2X2)
12	4	18. C program to generate the numbers in ascending order.
13	5	19. C program to display the name, age ,mark, average and total for the 5 students By structure using array.
14	5	20 C program to swap 2 numbers using pointer.
15	5	(c) Multiplication Matrix (2X2) (d) Transpose Matrix (3X3)

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CAP202T : PRACTICAL - II PROGRAMMING IN C ++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using Classes and Objects
2	2	Program using Classes and Objects
3	3	Program using Constructor
4	4	Program using Destructor
5	5	Program using Function overloading and Inline functions
6	6	Program using Operator Overloading
7	7	Program using Inheritance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	7	Program using friend functions
9	8	Program using friend functions
10	8	Program using friend functions
11	9	Implement PUSH, POP Operations of Stack using Arrays.
12	9	Implement PUSH, POP Operations of Stack using Arrays.
13	10	Implement insert, delete Operations of a queue using Arrays.
14	10	Conversion of infix to postfix using stacks Operations
15	10	Binary tree traversals using recursion

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CA101S : PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to C, Identifiers, Variables, Library function
2	1	Structure of C Program, data types,Keywords, Expressions, Simple C programs
3	1	Operators, Precedence of operator, Constants ,Odd or Even program
4	2	Formatted input and output function, Simple if statement, Largest among three numbers program, Leap year program
5	2	while loop, do-while, for, Armstrong number program , Reverse a number program, pattern display program
6	2	for, switch-case, arithmetic manipulation program, goto , break and continue
7	3	User defined functions, Call by value, function prototype

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	call by reference, Arrays, Matrix manipulation program, Sorting program
9	3	Recursion , Storage classes, Factorial program
10	4	String Manipulation, Strlen, strrev , strcmp functions
11	4	Structure and union , Pointers, Array with in structure
12	4	Palindrome checking , Arrays as function argument
13	5	Student mark list program, addition of two numbers using pointer program
14	5	arrays of pointers, array of structure, function with structure, Student mark list program
15	5	Files and its operations

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CA203Q : OBJECT ORIENTED PROGRAMMING USING C++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	C++ fundamentals: Introduction to C++
2	1	Tokens, Keywords, Identifiers, Variables, Operators
3	1	Expressions and Control Structures-Arrays in C++ ,CIN-COUT.
4	2	Principles of Object Oriented Programming(OOP), Evolution of C++, Programming Paradigms.
5	2	Key Concepts of OOP
6	2	Advantages of OOP ,Usage of OOP and C++.
7	3	Classes and Objects, Constructors and Destructors and Type of Constructors

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Inheritance: Single Inheritance ,Multilevel inheritance
9	3	Multiple inheritance ,Hierarchical Inheritance ,Hybrid Inheritance.
10	4	Functions: Inline Functions Friend Function,Virtual Function
11	4	Polymorphism, Function Overloading Operator Overloading. Input and Output in C++ Streams-Stream classes.
12	4	Formatted and Unformatted console I/O operations-Member functions of istream class-manipulators-manipulators with parameters
13	5	Working with Files Classes for File Stream Operations Opening and Closing a File
14	5	End-of-File Detection ,File Pointers ,Updating a File
15	5	Error Handling during File Operations ,Command-line Arguments.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ODD or EVEN number Sum of Series
2	1	Largest among 3 numbers Fibonacci series
3	1	Leap year or not The person is Eligible for vote or not
4	2	Reverse a Number Armstrong number
5	2	Pattern display 1 12 123
6	2	Arithmetic Manipulation using switch case statement
7	3	Factorial without function

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sapping without temporary variable
9	3	Length of the string
10	4	Palindrome checking program
11	4	Matrix Addition and subtrction
12	4	Matrix Multiplication
13	5	Adding two numbers using pointer
14	5	Ascending order
15	5	Student Mark list using structure

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CAP202T : PRACTICAL - II PROGRAMMING IN C ++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using Classes and Objects
2	1	Program using Classes and Objects
3	1	Program using Constructor and destructor
4	2	Program using Constructor and destructor
5	2	Program using Function overloading and Inline functions
6	2	Program using Operator Overloading
7	3	Program using Inheritance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Program using friend functions
9	3	Implement PUSH, POP Operations of Stack using Arrays.
10	4	Implement insert, delete Operations of a queue using Arrays.
11	4	Implement insert, delete Operations of a queue using Arrays.
12	4	Conversion of infix to postfix using stacks Operations.
13	5	Conversion of infix to postfix using stacks Operations.
14	5	Binary tree traversals using recursion
15	5	Binary tree traversals using recursion

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LESSON PLAN

Name of the Staff	**MERCY ANTHONY**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**ASCA202T : STATISTICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Measures of central tendency - Arithmetic Mean , Median , Mode
2	1	Harmonic mean and Geometric mean. Measures of dispersion - Range, Quartile deviation
3	1	Mean deviation, Standard deviation and co-efficient of variation
4	2	Measures of skewness - Karl pearson's
5	2	Bowley's and Kelly's coefficient -discrete series
6	2	Kelly's coefficient - continuous series . Kurtosis
7	3	Correlation analysis - Karl Pearson's coefficient of correlation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Spearman's rank correlation
9	3	Regression analysis
10	4	Test of significance (small sample) based on t
11	4	F distribution with respect to mean and variance
12	4	Correlation coefficient. Test of significance based on Chi square
13	5	Test of significance (large sample) based on population proportion
14	5	Test of significance (large sample) based on Mean
15	5	Test of significance (large sample) based on variance and correlation coefficient

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Puranaanuru , Aganaanuru
2	1	Kurunthogai, natrinai, paripaadal
3	4	Pathinen keezhkanaku nulgal 1 to 9
4	4	Pathinen keezhkanaku nulgal 10 - 18
5	4	Sangakalam muchangangal
6	4	Sanga kalam ettuthogai pathuppattu
7	3	Thirukkural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran
9	5	Mozhithiran seithi segarippu neir kaanal
10	4	Aatruppadai irandu mattum
11	4	Aatruppadai adutha moondru aatrupadai
12	2	Pattinappaalai
13	2	Sirumbaanaatruppadai
14	2	Madurai kaanji
15	2	Mullaipaattu

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CAP202T : PRACTICAL - II PROGRAMMING IN C ++**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using Classes and Objects
2	1	Program using Constructor and destructor
3	1	Program using Function overloading and Inline
4	2	Program using Operator Overloading
5	2	Program using Inheritance-single and multiple
6	2	Program using Inheritance- multilevel, hierarchical and hybrid
7	3	Sample program using Array

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implement PUSH, POP Operations of Stack using Arrays.
9	3	Program using friend functions
10	4	Implement insert, delete Operations of a queue using Arrays.
11	4	Model practical
12	4	Conversion of infix to postfix using stacks Operations.
13	5	Binary tree traversals using recursion
14	5	sample program in virtual function and Files
15	5	Model practical and revision

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 3
4	2	Lab Exercise 4,5
5	2	Lab Exercise 6
6	2	Lab Exercise 7
7	3	Lab Exercise 8

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 9
9	3	Lab Exercise 10
10	3	Lab Exercise 11
12	4	Lab Exercise 13
12	4	Lab Exercise 14
13	5	Lab Exercise 15
14	5	Lab Exercise 15
15	5	Revision test

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LESSON PLAN

Name of the Staff	**DEVASENA J Dr**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bharathiyar-Bharathathasam Bharathidasan ulagappan pattu
2	1	Kannadasa-Uthari mainthan Vairamuthu-Pithiya Arpadu
3	1	M.Matha Dasapithaukku oru Tharupadaganin Angali
4	3	Indumathi kuruthu
5	3	Anna Sevazhi Vinayagamoorthi parisu
6	5	UvamiAni Aduthukattu uvami Ani solporul uvami Ani
7	5	Tharkurippu Atra Ani Vallu ortru migum idam;vallu ortru miga idam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Silapathigaram Adigala kathi
9	2	Manimagalai Sakkaravalakotam
10	2	Kambaramayanam Valivathi padalam
11	2	Manikavssagar -Thirukoththumbi Thayumanavar-Parapara kanni
12	2	Kutrala kuravangi
13	4	M.V.Pnpadu
14	4	M.V.Pothumai oru Aram
15	4	MV,Neenthuga

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CA102T : DIGITAL LOGIC FUNDAMENTALS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Number System: Binary number system - The Basic Gates Boolean Laws and Theorem –
2	1	Boolean Algebra - Universal Gates
3	1	Number system and its convertions.
4	2	Simplification: Sum of products - Product of Sums.
5	2	K-map simplifications - Don't care conditions.
6	2	QuineMcclausky tabulation method.
7	3	Combinational Arithmetic Circuits: Adders-Subtractors.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	full adder-subtractor-BCD Adder-
9	3	ROM-PLA-Designing circuits using ROM/PLA.
10	4	Combinational Logic Circuits: Multiplexers-Demultiplexers.
11	4	Decoders: 1 of 16 Decoders.
12	4	Encoders.
13	5	Sequential Logic Circuit: Flip-Flops - Its types - RS Flip flop, JK Flip flop, D Flip flop, T and Master Slave. .
14	5	Counters and its types .
15	5	Shift Registers and its types.

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Write a C program to find the odd or even numbers for the range of given number
2	2	Write a C program to find the sum of series
3	3	Write a C program to generate the Fibonacci series
4	4	Write a C program to check whether the given year is leap year or not.
5	5	Write a C program to reverse a given number
6	5	Write a C program to reverse a given number
7	6	Write a C program to find the given number is Armstrong or not.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	Write a C program to find the given number is Armstrong or not.
9	7	Write a C program to find the largest number among the three numbers.
10	7	Write a C program to find the largest number among the three numbers.
11	8	Write a C program to find whether the person is eligible to vote or not
12	8	Write a C program to find whether the person is eligible to vote or not
13	9	Write a C program to display the grade of the student by using conditional statement
14	9	Write a C program to display the grade of the student by using conditional statement
15	10	Write a C program to display the arithmetic manipulation using Switch statement

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**CAP101T : PRACTICAL - I PROGRAMMING IN C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Leap year problem
2	1	Leap year
3	1	Leapyear
4	2	Reverse a number
5	2	Reverse a number
6	2	Reverse a number
7	3	Sum of series

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sum of series
9	3	Sum of series
10	4	Armstrong number
11	4	Armstrong number
12	4	Armstrong number
13	5	Largest among three numbers
14	5	Largest among three numbers
15	5	Largest among three numbers

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1 PURANANOORU 1.2 AGANANOORU
2	1	KURUNTHOGAI NATRINAI PARI PAADAL
3	4	ILAKKIYA VARALAARU PATHINENKEEZH KANAKKU NOOLGAL
4	4	ILAKKIYA VARALAARU PATHINENKEEZH KANAKKU NOOLGAL
5	4	ILAKKIYA VARALAARU 4.2 SANGAKAALAM (MUCHANGANGAL, ETTUTHOGAI, PATHTHUPPAATTU),
6	4	ILAKKIYA VARALAARU SANGAKAALAM (MUCHANGANGAL, ETTUTHOGAI, PATHTHUPPAATTU)
7	3	THIRUKKURAL 3.3 THERINTHU SEYAL VAGAI, VINAI SEYAL VAGAI, PORUL SEYAL VAGAI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHI THIRAN 5.1 VINNAPPANGAL 5.2 KADITHANGAL 5.3 SURUKKI VARAITHAL
9	5	MOZZHI THIRAN 5.4 SEITHI SEGARIPPU 5.5 NER KAANAL
10	4	ILAKKIYA VARALAARU 4.3 AATRUPPADAI
11	4	ILAKKIYA VARALAARU 4.3 AATRUPPADAI
12	2	PATHTHUPPATTU 2.1 PATTINAPPALAI
13	2	PATHTHUPPATTU 2.2 SIRUPAANAATRUPPADAI
14	2	PATHTHUPPAATTU 2.3 MATHURAI KAANJI
15	2	PATHTHUPPAATTU 2.4 MULLAI PAATTU

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**CA204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of a Data structure – primitive Data Types
2	1	composite Data Types, Arrays
3	1	Operations on Array, Ordered lists.
4	2	Applications of Stack – Infix to Postfix Conversion
5	2	Recursion, Maze Problems – Queues
6	2	Operations on Queues-Queue Applications- Circular Queue.
7	3	Singly Linked List – Operations, Application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Representation of a Polynomial, Polynomial Addition; Doubly Linked List
9	3	Operations, Applications – Ordering Books in a Library (Alphabetical Ordering)
10	4	Binary Trees –Representation of Binary Trees
11	4	Forest Tree-Conversion of Forest to Binary Tree
12	4	Tree Traversals -Inorder Tree traversals-Preorder Tree Traversals-Post order traversals
13	5	Graphs-Definition, Types of Graphs
14	5	Representation of Graphs -Graph Traversal
15	5	Shortest Path (Dijkstra's Algorithm.)-Case Study

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURANAANOORU AGANANOORU
2	1	KURUNTHOGAI, NATRINAI, PARIPADAL.
3	3	THIRUKURAL : ATHIGARAM--------VINA ISEYAL VAGAI
4	3	THIRUKURAL- ATHIGARAM------ PORUL SEYALVAGAI
5	3	THIRUKURAL-- ATHIGARAM --------THERINTHU SEYAL VAGAI
6	4	PATHINEN KIZHKANNAKKU NOOLGAL ILLAKIYA VARALARU
7	4	SANGA KAALAM ,, MOONDRU SANGANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN, VINNAPPANGAL,, KADITHANGAL
9	5	SURUKI VARAITHAL, SEITHI SEGARIPPU,,, NER KAANAL
10	2	PATTINA PAALAI 120 TO 192 LINES
11	2	SIRUPAAN AATRUPADAI: KADAIYEZHU VALLALGAL
12	2	PATHUPAATIL MADURAI KANCHI
13	2	MULLAI PAATTU PASARAI IYALBU
14	4	AATRUPADAI NOOLGAL
15	4	AATRUPADAI NOOLGAL

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INDIAN WOMAN
2	1	THE SOLITARY REAPER
3	1	THE PURPLE DRESS
4	2	EFFECTIVE COMMUNICATION BASIC SKILLS
5	2	GROUP DISCUSSION INTERVIEW
6	2	BOOKING HOTEL ACCOMMDATION
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GIVE US ROLE MODEL SOWALI
9	3	J.R.D WORDS OF INSPIRATION
10	4	BUSINESS COMMUNICATION BUSINESS PRESENTATION
11	4	SOFT SKILLS
12	5	BUSINESS LETTERS
13	5	PREPARE FOR RESUME
14	0	II CIA EXAM
15	0	REVISION

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LESSON PLAN

Name of the Staff	**GNANA SOUNDARI K**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Character is destiny by Dr. Radhakrishnan What is communication?
2	1	All the world is a stage by William Shakespeare Greeting people and Making request Seeking and giving permission
3	1	Never Never Nest Agreeing and disagreeing
4	2	Persuading and debating Sounds and symbols in English Word and sentence stress
5	2	Effective use of innovation Telephone manners in business situation Handing customer orders and enquiries
6	5	Note making Report writing
7	0	Revisions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA EXAM
9	2	The gift of the Magi Effective listening
10	2	Malala's biography Understanding the audience
11	2	The monkey's paw Perceptual clarity Channel Awareness
12	4	Role of non verbal communication Pragmatic Handling delivery and after sales problems
13	4	Teleconference Tele- Interview Advertisement Boucher
14	0	II CIA EXAM
15	0	Revisions

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LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore Elocution
12	5	Description Narration
13	5	Paragraph Writing
14	0	II CIA
15	0	FULL REVISION

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee Story telling
2	1	Quiz game
3	2	Seminar Debate
4	2	Group Discussion
5	3	Book Review
6	3	Film Review
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Speech on Current Events Welcome Address
9	4	Vote of Thanks
10	4	Report Writing
11	5	Narrating Dreams
12	5	Narrating Ambition
13	5	Narrating Ambition
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Women - S. Radhakrishnan
2	1	The solitary reaper-William Wordsworth THE PURPLE DRESS -O HENRY
3	2	Effective communication Face to face communication
4	2	Basic skills for talking to people Receiving visitors
5	2	GROUP DISCUSSION preparing for interview
6	2	talking interview promotion interview
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GIVE US A ROLE MODEL -DR.A.P,J KALAM SOWALI-MAHASWETA DVI
9	3	J.R..D.'S WORDS OF INSPIRATION TO SUDTHA MURTHY
10	4	BUSINESS CONVERSATION BUSINESS PRESENTATION
11	4	SOFT SKILLS TEAM MAINTENANCE AND ROLES
12	5	STANDARD BUSINESS LETTERS RESUME WRITING
13	5	ASSIGNMENT SEMINAR GROUP DISCUSSION
14	0	II CIA EXAM
15	0	REVISION

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LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
3	1	2. Determining the order of numbers generated randomly using Random class.
4	2	2. Determining the order of numbers generated randomly using Random class.
5	2	3. Implementing and importing packages.
6	3	4. Implementing Interfaces-Arithmetic Manipulations
7	3	5. Exception Handling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	6. Multithreading
9	4	7. String Manipulation using buffered Reader
10	4	7. String Manipulation using buffered Reader
11	4	8. Usage of Calendar Class and manipulation
12	5	9. Application using File streams(Sequential File)
13	5	10. Application using File streams(Random File)
14	5	10. Application using File streams(Random File)
15	5	10. Application using File streams(Random File)

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class
2	2	To implement Bio-Data Information using Various Controls
3	3	Display different graphical symbols using Applet class.
4	4	Display different graphical symbols using Applet class.
5	5	To implement for sending a string from one system to another using TCP/IP.
6	5	To implement for sending a string from one system to another using TCP/IP.
7	6	Chatting Application using TCP/IP.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	Chatting Application using TCP/IP.
9	7	To develop an application for telephone directory using data base (MS access).
10	7	To develop an application for telephone directory using data base (MS access).
11	8	To implement student mark list using AWT classes with data base (MS access).
12	8	To implement student mark list using AWT classes with data base (MS access).
13	9	To develop a program for prime number using RMI.
14	10	To develop a program for Arithmetic Operation using Servlets.
15	11	To develop an application for simple EB Bill using Servlets with database.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA407T : INTERNET TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internet Connection Concepts : Internet Communication Protocols Internet Hosts
2	1	Internet Protocol(IP) Addresses , Domain and Host Name , Servers and Clients
3	1	Ports and Port Numbers ,Types of Internet Connections , Internet Service Providers(ISPs)
4	2	World Wide Web Concepts : URLs and Transfer Protocols ,HTML .
5	2	Java and JavaScript , VBScript ,Plug-ins ,XML
7	3	HTML tags : History of HTML ,Structure of HTML , Basic Tags of HTML
8	3	List , Linking Document

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Frames , Graphics to HTML Documents.
10	4	Style Sheet Basics : Introduction to CSS ,Add Style to document
11	4	Creating Style Sheet rules ,Style sheet Properties, Font, text
12	4	Color and Background Color , Box Properties.
13	5	JavaScript : Introduction , Advantage of JavaScript
14	5	JavaScript Syntax , data type ,Variable ,Array ,Operator & Expressions
15	5	Looping Constructors ,Function ,Dialog Box .
6	2	Cascading style sheets(CSS), Websites,Portals, Web Directories, Search Engine, Home pages

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	Display different graphical symbols using Applet class.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	To implement for sending a string from one system to another using TCP/IP.
5	2	Chatting Application using TCP/IP.
6	2	To develop an application for telephone directory using data base (MS access).
7	3	To develop an application for telephone directory using data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To implement student mark list using AWT classes with data base (MS access).
9	3	To implement student mark list using AWT classes with data base (MS access).
10	4	To develop a program for prime number using RMI.
11	4	To develop a program for prime number using RMI.
12	4	To develop a program for Arithmetic Operation using Servlets.
13	5	To develop a program for Arithmetic Operation using Servlets.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
2	1	Program structure in Advanced Java Programming
3	1	Simple programs in Advanced Java.
4	2	Simple programs in Advanced Java using loop controls.
5	2	To implement Bio-Data Information using Frame class with various controls.
6	2	Display different graphical symbols using Applet class.
7	3	To implement for sending a string from one system to another using TCP/IP.
8	3	Chatting Application using TCP/IP.

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	To develop an application for telephone directory using data base (MS access).
10	4	To implement student mark list using AWT classes with data base (MS access).
11	4	To develop a program for prime number using RMI.
12	4	To develop a program for Arithmetic Operation using Servlets.
13	5	To develop an application for simple EB Bill using Servlets with database.
14	5	Application development using database.
15	5	Programs using servlets.
1	1	Introduction to Advanced Java

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
3	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
4	2	Determining the order of numbers generated randomly using Random class.
5	2	Determining the order of numbers generated randomly using Random class.
6	3	Implementing and importing packages for simple application.
7	3	Implementing and importing packages for simple application.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing and importing packages for simple application.
9	4	Implementing Interfaces-Arithmetic Manipulations.
10	4	Implementing Interfaces-Arithmetic Manipulations.
11	4	Implementing Interfaces-Arithmetic Manipulations.
12	5	Exception Handling.
13	5	Exception Handling.
14	5	Exception Handling.
15	6	String Manipulation using String/StringBuffer class

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CA306T : COMPUTER ALGORITHMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction -algorithm-PSEUDO-how to analyze algorithm
2	1	Introduction -algorithm-PSEUDO-how to analyze algorithm
3	1	How to analyze problems-time complexity-problems
4	1	Space complexity-asymptotic notations-big oh-big omega-theta
5	2	divide and conquer technique-introduction-examples problem
6	2	complexity analysis-merge sort examples
7	2	quick sort -examples-strassen matrix multiplication -examples

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	greedy technique-introduction-example problem
9	3	knapsack problem -example-shortest parh algorithm
10	4	Dynamic programming -general methods
11	4	multistage graph forward approach-examples-multistage graph backward approach-examples
12	4	traveling salesman problem examples
13	5	tree traversal examples
14	5	backtracking general method
15	5	BFS algorithm -examples-DFS algorithm examples

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Printing data Supporting teach & error correction
2	1	For while dowhile Supporting teach & error correction
3	1	Pascal triangle Supporting teach & error correction
4	2	Finding area and Perimeter of a circle. Use Buffered Reader class. Supporting teach & error correction
5	3	Determining the order of numbers generated randomly using Random class. Supporting teach & error correction
6	3	Determining the order of numbers generated randomly using Random class. Samples Supporting teach & error correction
7	3	Implementing and importing packages. Supporting teach & error correction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Implementing and importing packages. _- multiple Supporting teach & error correction
9	4	Supporting teach & error correction. Exception Handling
10	4	Implementing Interfaces-Arithmetic Manipulations Supporting teach & error correction
11	4	Multithreading Supporting teach & error correction
12	5	String Manipulation using buffered Reader Supporting teach & error correction
13	5	Usage of Calendar Class and manipulation Supporting teach & error correction
14	5	Application using File streams(Sequential File) Supporting teach & error correction
15	5	Application using File streams(Random File) Supporting teach & error correction

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**ACCA401 : FINANCIAL ACCOUNTING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Accounting-Meaning – Definition- Need for Accounting –scope of Accounting – Branches of Accounting – Methods of Accounting
2	1	Types of accounts – Accounting rules – Book Keeping and Accounting -Advantages and limitations of accounting
3	1	Accounting concepts and conventions.Journal -Introduction – Meaning- Transaction analysis for journal entries-Ledger – Meaning – Difference between journal and ledger.
4	2	Subsidiary books –Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales
5	2	purchase returns – sales returns – cash book – single column, Double column and Triple column cash book.
6	2	Trial Balance - Introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance.
7	3	Introduction – Meaning – Definition – Causes for differences between cash book and pass book

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Method of preparation of Bank Reconciliation statement.
9	3	Revision
10	4	Depreciation – Introduction, meaning, causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation – Straight line method
12	4	written down value methods
13	5	Final Accounts – Introduction – Preparation of manufacturing account -– Trading account – profit and loss account
14	5	Balance sheet – Adjustments (Simple).
15	5	Revision

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion – KTechniques in Group Discussion
3	1	Tips for Group Discussion.
4	2	Interview Preparation: Common Interview Questions – Questions to Ask Your Employer
5	2	What Emplopyers Want – Attitude & Effort – Body Language .Types of interview:
6	2	The Mock interview – Phone interviews – Behavioural Interviews - Closing the interview – Thank You notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work - Time and Distance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Heights and Distances - Data Interpretation: Tabulation
9	3	Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning (1): Analogies – Arrangement
11	4	Causes and Effects – Family Tree
12	4	Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series
14	5	Code based questions on letter of Alphabets
15	5	Syllogism - Statement and Conclusion.

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA408T : ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AWT Overview: Components, Container-AWT classes
2	1	Button, TextField, Checkbox-Layouts-Simple example using AWT.
3	1	Applet: Introduction to Applet-Life Cycle of Applet.-Simple example using applet.
4	2	Networks: Network Basics-socket overview
5	2	Internet Addressing-DNS-TCP/IP-URL
6	2	Example using network concepts.
7	3	DataBase: JDBC-ODBC Driver-Connection class

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Statement class-ResultSet class
9	3	Example using database (MS Access).
10	4	RMI: Introduction to Remote Method Invocation
11	4	Architecture of Remote method invocation,implementation
12	4	A complete example using RMI.
13	5	Servlet: Servlet overview – your first servlet
14	5	servlet chaining – session management in servlet
15	5	Session Tracking-simple database program using Servlet.

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Finding area and Perimeter of a circle. Use Buffered Reader class
2	2	Determining the order of numbers generated randomly using Random class.
3	2	Determining the order of numbers generated randomly using Random class.
4	3	Implementing and importing packages.
5	3	Implementing and importing packages.
6	4	Implementing Interfaces-Arithmetic Manipulations
7	4	Implementing Interfaces-Arithmetic Manipulations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Exception Handling
9	5	Exception Handling
10	6	Multithreading
11	7	String Manipulation using buffered Reader
12	7	String Manipulation using buffered Reader
13	8	Usage of Calendar Class and manipulation
14	9	Application using File streams(Sequential File)
15	10	Application using File streams(Random File)

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Display different graphical symbols using Applet class
2	2	To implement Bio-Data Information using Frame class with various controls.
3	2	To implement Bio-Data Information using Frame class with various controls.
4	3	To implement for sending a string from one system to another using TCP/IP.
5	4	Chatting Application using TCP/IP.
6	5	To develop an application for telephone directory using data base (MS access).
7	5	To develop an application for telephone directory using data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	To implement student mark list using AWT classes with data base (MS access)
9	6	To implement student mark list using AWT classes with data base (MS access)
10	7	To develop a program for prime number using RMI.
11	7	To develop a program for prime number using RMI.
12	8	To develop a program for Arithmetic Operation using Servlets.
13	8	To develop a program for Arithmetic Operation using Servlets.
14	9	To develop an application for simple EB Bill using Servlets with database.
15	9	To develop an application for simple EB Bill using Servlets with database.

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AMCA403S : RESOURCE MANAGEMENT TECHNIQUES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Operation Research definition Mathematical formulation
2	1	Graphical method Simplex method
3	1	Simplex method Big M method
4	2	Transportation Northwest corner rule Least cost method
5	2	VAM Optimization Degeneracy
6	2	Assignment problems Hungarian method Special cases in assignment
7	3	Sequencing problems No Jobs through 2 machine

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	N jobs through 3 machine
9	3	2 jobs through k machine
10	4	Game theory Saddle point
11	4	Dominance Value of the game
12	4	Graphical method Exercise problems
13	5	Network analysis Drawing the network
14	5	Critical path method
15	5	Porgramme evaluation and review techniques

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LESSON PLAN

Name of the Staff	**SAVITHAMARY A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**AMTCA302 : NUMERICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	First and higher order differences, forward and backward differences, properties of operators
2	1	Differences of a polynomial, factorial polynomial, operator E, relation between the operators
3	1	Interpolation, newton's forward and backward interpolation, simple problems
4	2	Central difference Operators – Central differences formulae: Gauss Forward and Backward formulae(without proof) –
5	2	Sterling's formula(without proof)
6	2	Bessel's formula(without proof) – simple problems.
7	3	Divided differences – Newton's divided differences formula

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lagrange's formula[without proof] Estimating the Missing terms [with one or more missing values]
9	3	Lagrange's method and Reversion of series method [Using Newton's forward formula only]..
10	4	Gauss elimination method – matrix inversion method
11	4	Gauss – Jordan Method, Gauss – Seidal method
12	4	Crout's method [Three unknowns only].
13	5	Solving second order differential equation, Runge kutta method,
14	5	Euler's modified method,
15	5	Euler's method, Adam's method.

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**ACCA401 : FINANCIAL ACCOUNTING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Accounting – Meaning- Definition – Need for Accounting – Scope of Accounting – Branches of Accounting – Methods of Accounting
2	1	Types of Accounting – Accounting Rules – Book Keeping and Accounting – Advantages and limitations of accounting
3	1	Accounting concepts and conventions. Journals – Introduction – Meaning – Transaction analysis for journals entries – Ledger – Meaning – Difference between journal and ledger
4	2	Subsidiary books – Meaning benefits of subsidiary books – preparation of individual subsidiary books – purchase – sales – purchase returns – sales returns
5	2	Cash book – single column, Double column and Triple column cash book
6	2	Trial Balance – introduction – Trial balance – Meaning – Definition – Objectives – Errors not disclosed by trial balance – Errors disclosed by trial balance.
7	3	Introduction – Meaning – Definition

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Causes for differences between cash book and pass book
9	3	Method of preparation of Bank Reconciliation statement
10	4	Depreciation – Introduction, Meaning, Causes, factors affecting the amount of depreciation.
11	4	Methods of providing Depreciation
12	4	Straight line method and written down value methods only.
13	5	Final Accounts – Introduction – Meaning and Users
14	5	Preparation of manufacturing account – Trading accounts
15	5	Profit and loss account – Balance sheet – Adjustments (Simple).

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
3	1	2. Determining the order of numbers generated randomly using Random class.
4	2	2. Determining the order of numbers generated randomly using Random class.
5	2	3. Implementing and importing packages.
6	3	4. Implementing Interfaces-Arithmetic Manipulations
7	3	5. Exception Handling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	6. Multithreading
9	4	7. String Manipulation using buffered Reader
10	4	7. String Manipulation using buffered Reader
11	4	8. Usage of Calendar Class and manipulation
12	5	9. Application using File streams(Sequential File)
13	5	10. Application using File streams(Random File)
14	5	10. Application using File streams(Random File)
15	5	10. Application using File streams(Random File)

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. To implement Bio-Data Information using Frame class with various controls.
2	1	2. Display different graphical symbols using Applet class.
3	2	3. To implement for sending a string from one system to another using TCP/IP.
4	2	4. Chatting Application using TCP/IP.
5	3	5. To develop an application for telephone directory using data base (MS access).
6	3	contd.. To develop an application for telephone directory using data base (MS access).
7	3	6. To implement student mark list using AWT classes with data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	contd.. To implement student mark list using AWT classes with data base (MS access).
9	4	7.To develop a program for prime number using RMI.
10	4	contd.. To develop a program for prime number using RMI.
11	5	8. To develop a program for Arithmetic Operation using Servlets.
12	5	contd.. To develop a program for Arithmetic Operation using Servlets.
13	5	9. To develop an application for simple EB Bill using Servlets with database
14	5	contd.. To develop an application for simple EB Bill using Servlets with database
15	5	sample program and revision

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA407T : INTERNET TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internet Connection Concepts : Internet Communication Protocols – Internet Hosts – Internet Protocol(IP) Addresses)
2	1	Domain and Host Name - Servers and Clients – Ports and Port Numbers –
3	1	Types of Internet Connections – Internet Service Providers(ISPs)
4	2	World Wide Web Concepts : URLs and Transfer Protocols – HTML – Java and JavaScript – VBScript – Plug-ins
5	2	XML – Cascading Style Sheets(CSS) – Websites
6	2	Portals – Web Directories and Search Engines – Home Pages.
7	3	HTML tags : History of HTML – Structure of HTML

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Basic Tags of HTML - List – Linking Document
9	3	Frames -Graphics to HTML documents
10	4	Style Sheet Basics : Introduction to CSS – Add Style to document – Creating Style Sheet rules
11	4	Style Sheet properties-Font – text
12	4	Color and Background Color – Box Properties.
13	5	JavaScript : Introduction – Advantage of JavaScript – JavaScript Syntax
14	5	Data type – Variable – Array – Operator & Expressions
15	5	Looping Constructors – Function – Dialog Box .

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	Display different graphical symbols using Applet class.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	Sample program in applet using awt contols
5	2	Chatting Application using TCP/IP.
6	2	To develop an application for telephone directory using data base (MS access).
7	3	To implement student mark list using AWT classes with data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Model practical
9	4	develop calculator
10	4	To develop a program for Arithmetic Operation using Servlets.
11	4	To develop an application for simple EB Bill using Servlets with database.
12	4	To develop a program for prime number using RMI.
13	5	To develop a program for factorial number using RMI.
14	5	model practical
15	5	Revision

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 3
4	2	Lab Exercise 4
5	2	Lab Exercise 5,6
6	2	Lab Exercise 7,8
7	3	Lab Exercise 9

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 10,11
9	3	Lab Exercise 12
10	4	Lab Exercise 13,14
11	4	Lab Exercise 15
12	4	Lab Exercise 16
13	5	Lab Exercise 17,8
14	5	Lab Exercise 19
15	5	Lab Exercise 20

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion –
3	1	KTechniques in Group Discussion – Tips for Group Discussion.
4	2	Interview Preparation: Common Interview Questions – Questions to Ask Your Employer – What Emplopyers Want
5	2	– Attitude & Effort – Body Language .Types of interview: The Mock interview – Phone interviews
6	2	Behavioural Interviews – Closing the interview – Thank You notes & Follow-Ups
7	3	Quantitative Aptitude: Time and work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Time and Distance – Heights and Distances
9	3	Data Interpretation: Tabulation – Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning (1): Analogies –
11	4	Arrangement - Causes and Effects
12	4	Family Tree – Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series
14	5	Code based questions on letter of Alphabets
15	5	Syllogism - Statement and Conclusion.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
2	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
3	1	1. Finding area and Perimeter of a circle. Use Buffered Reader class.
4	2	Determining the order of numbers generated randomly using Random class.
5	2	Determining the order of numbers generated randomly using Random class.
6	3	Implementing and importing packages for simple application.
7	3	Implementing and importing packages for simple application.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing and importing packages for simple application.
9	4	Implementing Interfaces-Arithmetic Manipulations.
10	4	Implementing Interfaces-Arithmetic Manipulations.
11	4	Implementing Interfaces-Arithmetic Manipulations.
12	5	Exception Handling.
13	5	Exception Handling.
14	5	Exception Handling.
15	6	String Manipulation using String/StringBuffer class

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA408T : ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AWT Overview-Components and Containers
2	1	AWT Classes
3	1	Introduction to Applet & Applet Basics
4	1	Life cycle of Applet & Sample programs
5	2	Networks - Network Basics
6	2	Socket Overview
7	2	Inet Address, DNS and URL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Database-JDBC-ODBC Drivers
9	3	Connection Class and ResultSet Class with example Programs
10	4	Introduction to RMI
11	4	Architecture of RMI
12	4	Sample example using RMI
13	5	Servlet Overview and Servlet Chaining
14	5	Session Tracking and Session Management
15	5	Servlet programs and Revision

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LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Area of a circle program
2	1	Random numbers lab programs
3	2	Sample programs using Control statements
4	2	Sample programs using looping
5	3	Package lab programs
6	3	Sample programs using packages
7	3	Interface lab programs

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sample programs using interface
9	4	multithreading lab programs
10	4	String lab programs
11	4	String buffer lab exercise
12	5	file related programs
13	5	Sequential file lab program
14	5	calendar and random class program
15	5	Sample file programs

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARY ODILYA TEENA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample programs using AWT controls
2	1	Biodata creation using AWT
3	1	Sample program using Applets
4	1	Graphical Symbols using Applet concepts
5	2	TCP/IP program
6	2	Chatting application
7	2	Program to find host name and host address

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	develop telephone directory program
9	3	create student marklist using msaccess
10	4	Find prime number using RMI
11	4	Addition of two numbers using RMI
12	5	Arithmetic operation using Servlet in Java
13	5	EBBill creation using Servlet
14	5	Sample examples using servlet
15	5	Revised all the programs

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction Logics Basic formulas
2	3	Sample workouts Sample from qp
3	3	Time and work
4	3	Time and work
5	3	Time and work
6	3	Time and distance
7	3	Time and distance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Height and distance
9	3	Height and distance
10	3	Data interpretation
11	3	Tabulation
12	3	Bar graph-pie charts
13	3	Line graphs
14	5	Code based questions
15	5	Qp of mnc Revision

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Printing data Supporting teach & error correction
2	1	For while dowhile Supporting teach & error correction
3	1	Pascal triangle Supporting teach & error correction
4	2	Finding area and Perimeter of a circle. Use Buffered Reader class. Supporting teach & error correction
5	3	Determining the order of numbers generated randomly using Random class. Supporting teach & error correction
6	3	Determining the order of numbers generated randomly using Random class. Samples Supporting teach & error correction
7	3	Implementing and importing packages. Supporting teach & error correction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Implementing and importing packages. _- multiple Supporting teach & error correction
9	4	Supporting teach & error correction. Exception Handling
10	4	Implementing Interfaces-Arithmetic Manipulations Supporting teach & error correction
11	4	Multithreading Supporting teach & error correction
12	5	String Manipulation using buffered Reader Supporting teach & error correction
13	5	Usage of Calendar Class and manipulation Supporting teach & error correction
14	5	Application using File streams(Sequential File) Supporting teach & error correction
15	5	Application using File streams(Random File) Supporting teach & error correction

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To implement Bio-Data Information using Frame class with various controls.
2	1	Display different graphical symbols using Applet class.
3	1	To implement for sending a string from one system to another using TCP/IP.
4	2	Chatting Application using TCP/IP.
6	2	To develop an application for telephone directory using data base (MS access).
7	3	To implement student mark list using AWT classes with data base (MS access).
8	3	To implement student mark list using AWT classes with data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	To develop a program for prime number using RMI.
10	4	To develop a program for prime number using RMI.
11	4	To develop a program for Arithmetic Operation using Servlets.
12	4	To develop a program for Arithmetic Operation using Servlets.
13	5	To develop an application for simple EB Bill using Servlets with database.
14	5	To develop an application for simple EB Bill using Servlets with database.
15	5	To develop an application for simple EB Bill using Servlets with database.
5	2	To develop an application for telephone directory using data base (MS access).

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CA306T : COMPUTER ALGORITHMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Algorithm
2	1	How to analyze algorithms
3	1	Time and space complexity, Asymptotic notations
4	2	Divide and Conquer- General method
5	2	Complexity Analysis, Merge sort
6	2	Quick Sort, Strassen's matrix multiplication
7	3	Greedy method , General method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Shortest path algorithms, problems
9	3	0/1 Knapsack problem
10	4	Dynamic programming
11	4	Travelling salesman Problem
12	4	Multistage graph
13	5	Backtracking
14	5	Breadth first search
15	5	Depth first search

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion – KTechniques in Group Discussion
3	1	Tips for Group Discussion.
4	2	Interview Preparation: Common Interview Questions – Questions to Ask Your Employer
5	2	What Emplopyers Want – Attitude & Effort – Body Language .Types of interview:
6	2	The Mock interview – Phone interviews – Behavioural Interviews - Closing the interview – Thank You notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work - Time and Distance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Heights and Distances - Data Interpretation: Tabulation
9	3	Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning (1): Analogies – Arrangement
11	4	Causes and Effects – Family Tree
12	4	Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series
14	5	Code based questions on letter of Alphabets
15	5	Syllogism - Statement and Conclusion.

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CA408T : ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AWT Overview: Components, Container-AWT classes
2	1	Button, TextField, Checkbox-Layouts-Simple example using AWT.
3	1	Applet: Introduction to Applet-Life Cycle of Applet.-Simple example using applet.
4	2	Networks: Network Basics-socket overview
5	2	Internet Addressing-DNS-TCP/IP-URL
6	2	Example using network concepts.
7	3	DataBase: JDBC-ODBC Driver-Connection class

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Statement class-ResultSet class
9	3	Example using database (MS Access).
10	4	RMI: Introduction to Remote Method Invocation
11	4	Architecture of Remote method invocation,implementation
12	4	A complete example using RMI.
13	5	Servlet: Servlet overview – your first servlet
14	5	servlet chaining – session management in servlet
15	5	Session Tracking-simple database program using Servlet.

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**CAP303Q : PRACTICAL - PROGRAMMING USING SUN MICROSTECH (JAVA)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Finding area and Perimeter of a circle. Use Buffered Reader class
2	2	Determining the order of numbers generated randomly using Random class.
3	2	Determining the order of numbers generated randomly using Random class.
4	3	Implementing and importing packages.
5	3	Implementing and importing packages.
6	4	Implementing Interfaces-Arithmetic Manipulations
7	4	Implementing Interfaces-Arithmetic Manipulations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Exception Handling
9	5	Exception Handling
10	6	Multithreading
11	7	String Manipulation using buffered Reader
12	7	String Manipulation using buffered Reader
13	8	Usage of Calendar Class and manipulation
14	9	Application using File streams(Sequential File)
15	10	Application using File streams(Random File)

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**CAP404T : PRACTICAL - IV ADVANCED JAVA PROGRAMMING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Display different graphical symbols using Applet class
2	2	To implement Bio-Data Information using Frame class with various controls.
3	2	To implement Bio-Data Information using Frame class with various controls.
4	3	To implement for sending a string from one system to another using TCP/IP.
5	4	Chatting Application using TCP/IP.
6	5	To develop an application for telephone directory using data base (MS access).
7	5	To develop an application for telephone directory using data base (MS access).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	To implement student mark list using AWT classes with data base (MS access)
9	6	To implement student mark list using AWT classes with data base (MS access)
10	7	To develop a program for prime number using RMI.
11	7	To develop a program for prime number using RMI.
12	8	To develop a program for Arithmetic Operation using Servlets.
13	8	To develop a program for Arithmetic Operation using Servlets.
14	9	To develop an application for simple EB Bill using Servlets with database.
15	9	To develop an application for simple EB Bill using Servlets with database.

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LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**ACA301 : ORGANIZATIONAL BEHAVIOUR**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to organizational behavior, challenges facing management
2	1	Paradigm shift, new perspective of management
3	1	Definition of organizational behavior, framework, organizational behavior model
4	2	Personality ,types of personality,factors influencing personality
5	2	Perception process, social perception,attitudes
6	2	Motivation, motivation process, hierarchy of work motivation
7	3	Nature of groups, dynamics of informal groups

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Dysfunction, group
9	3	Work team building, communication
10	4	Meaning of leadership, and power, importance
11	4	Leadership styles, traditional theories of leadership
12	4	Modern theoretical process of leadership , power and process
13	5	Organizational culture and climate, factors affecting organizational climate
14	5	Importance of job satisfaction, organization change
15	5	stress and conflict

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LESSON PLAN

Name of the Staff	**KALAIMATHI M**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**AMTCA302 : NUMERICAL METHODS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Finite difference First and higher order difference Forward and backward differences
2	1	Interpolation Newton's Gregory forward and backward formulae for interpolation
3	1	Operator E Relation between the operators Factor polynomials
4	2	Cental difference operators
5	2	Gauss forward and backward formulae
6	2	Sterling's formula Bessels formula
7	3	Divided difference Newton divided difference

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lagranges formula Estimate the missing terms
9	3	Lagranges method Reversion of series method
10	4	Gauss elimination method Gauss jordan method
11	4	Matrix inversion method Gauss sedial method
12	4	Crouts method
13	5	Solving second order differential equation Eulers method
14	5	Modified eulers method Runge kurta method
15	5	Adams method

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**4**
Subject	**AMCA403S : RESOURCE MANAGEMENT TECHNIQUES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of OR linear programming Problem ,graphical solution.
2	1	Simplex method , problems based on simplex method.
3	1	Artificial variables techniques , Big M method .
4	2	Definition, Formulation of Transportation-North-west corner method .
5	2	Matrix minima method- Vogels Approximation method . Solution of transportation -modi's method
6	2	Definitions of assignment , formulation and solution of assignment models, special cases in assignment problems.
7	3	Basic term used in sequencing processing n jobs through two machines.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Processing n jobs through three machines.
9	3	Processing two jobs through k machines.
10	4	Game theory -Two person zero sum game -Basic terms-Maximin and minimax principle.
11	4	Games without saddle point-mixed strategies.
12	4	Graphical solution of 2xn and mx2 games -Dominance property.
13	5	PERT and CPM networks: Introduction -Network and basic component-Logical sequencing.
14	5	Fulkerson's rule of the Network construction-critical path Analysis.
15	5	PERT analysis-PERT Distinction between PERT and CPM.

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA511 : DATA COMMUNICATION NETWORKS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Networks,Protocols and Standards-Line Configuration
2	1	Topology: Mesh.Star,Tree,Bus and Ring Topogy
3	1	Transmission Mode, : Simplex,Half Duplex,Full Duplex,Categories of Network: LAN,MAN,WAN. Internetworks
4	2	OSI model: functions of the layers
5	2	TCP/IP protocol suite – signals – analog and digital signal – periodic and a periodic signals – analog signals – digital signal
6	2	Data transmission – data terminal equipment – data circuit terminals equipment – modems.
7	3	Transmission media: guided media – unguided media – transmission impairments – media comparison.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplexing – FDM – TDM – WDM
9	3	Error detection and correction – types of errors–detection – vertical redundancy check (VRC) – longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction.
10	4	Switching Techniques: circuit switching
11	4	Packet switching – message switching
12	4	Networking and Inter networking devices – repeaters – bridges – routers – gateways.
13	5	Routing algorithms: distance vector routing
14	5	Link state routing
15	5	Data link control – line discipline – flow control – error control.

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To develop simple student bio data
2	1	To develop simple student bio data
3	1	Create a color chooser using standard control.
4	2	Create a color chooser using standard control.
5	2	To develop Notepad Application
6	2	To develop Notepad Application
7	2	Login Form Creation using Ms Access

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create an application to send a request from one page to another using session
9	3	Create an application to send a request from one page to another using session
10	4	Create a web page for an Organisation using Master Page
11	4	Create a web page for an Organisation using Master Page
12	4	Develop Database Application for Student Mark list Processing using Validation Control
13	5	Develop Database Application for Telephone Directory
14	5	Develop Database Application for Telephone Directory
15	5	Develop Database Application for Telephone Directory

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA512S : MULTIMEDIA AND VIRTUAL REALITY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: What is Multimedia: Definitions, Where to use multimedia
2	1	Introduction to Making Multimedia: What you need Macintosh and Windows production platforms
3	1	Macintosh and Windows production platforms
4	1	Text: The power of meaning, Font editing and Design tools, Hypermedia and Hypertext
5	1	About fonts and faces ,Using text in multimedia , Computers and Text
6	3	Video: Using Video How Video works, Broadcast video standards
7	3	Integrating computers and television ,Shooting and Editing Video

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	video tips, Recording formats Digital Video.
9	3	Planning and Costing: Project planning ,Estimating –
10	3	RFPs and Bid Proposals ,Designing and producing: Designing Producing
11	5	Application to virtual reality: 3D modeling, , 3D education
12	5	3D architecture, 3D training, 3D science
13	5	3D shopping, 3D sports, Distributed interactive simulation, the responsive work bench
14	5	VR training programme for disable children, , medicine and surgery
15	5	Introduction to Virtual Reality Modeling languages.

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Queries using DDL,DML and DCL
2	1	Simple Queries using DDL,DML and DCL
3	1	SQL In-Built Functions
4	2	SQL In-Built Functions
5	2	SET Operations
6	2	Views and Snapshots
7	3	Joins

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sub Queries
9	3	PL/SQL Block
10	4	Procedures
11	4	Procedures
12	4	Functions
13	5	Packages
14	5	Triggers
15	5	Cursors

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To develop simple student bio data
2	1	To develop simple student bio data
3	1	Create a color chooser using standard control.
4	2	Create a color chooser using standard control.
5	2	To develop Notepad Application.
6	2	To develop Notepad Application.
7	3	Login Form Creation using Ms Access.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Login Form Creation using Ms Access.
9	3	Create an application to sending a request from one page to another using session.
10	4	Create an application to sending a request from one page to another using session.
11	4	Create a simple website for an organization using Master Page.
12	4	Create a simple website for an organization using Master Page.
13	5	To develop database application for student mark list processing using validation control (Oracle)
14	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
15	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
3	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	Arrays
5	2	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
6	2	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
7	3	Create a Home Page using PHP and validating the form using javascript.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Form creation using POST method
9	3	Database Operations
10	4	Database Operations
11	4	Login form
12	4	Student mark list creation
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	example programs in console application-arithmetic operation,simple manipulation
2	1	example programs in windows application-simple form creation,event code,properties
3	1	Lab-1 creating Bio Data application lab program
4	2	sample programs using Timer,dialogs
5	2	Lab-2 color chooser program
6	3	sample programs using dialog controls,openfiledialog,savefiledialog,printdialog
7	3	Lab-3-Notepad Application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	program for creating more than one form
9	4	Lab-4-Login form creation
10	5	sample programs for webforms
11	5	Lab-5-creating page request from one page to another
12	6	sample programs for creating more than one webforms
13	6	Lab-6 -creating simple website
14	7	Lab-7-creating student marklist using database
15	8	Lab-8-Creating Telephone Directory using database

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Lab Exercise 1
2	1	Lab Exercise 2
3	1	Lab Exercise 3
4	2	Lab Exercise 4
5	2	Lab Exercise 5
6	32	Lab Exercise 6
7	3	Lab Exercise 7

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lab Exercise 7
9	3	Lab Exercise 8
10	4	Lab Exercise 9
11	4	Lab Exercise 9
12	4	Lab Exercise 10
13	5	Lab Exercise 10
14	5	Lab Exercise 11
15	5	Lab Exercise 12

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Tittle Discussion
2	1	Domain Selection
3	1	Analysis
4	2	Design
5	2	creating Modules
6	2	allotting function for the modules
7	3	designing master pages, screen, and pictures for the project

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	writing code for each and every functions
9	3	writing code for each and every functions
10	4	Integration of the function
11	4	Integration of the Modules
12	4	code Testing
13	5	Functional testing
14	5	Executing the Project
15	5	Documentation

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA613T : COMPUTER ARCHITECTURE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit: General register and stack organization
2	1	Instruction formats - Addressing modes
3	1	Data Transfer and Manipulation instructions.
4	2	Pipelining: Arithmetic, instruction pipeline
5	2	RISC pipelining.
6	2	Computer Arithmetic : Addition and subtraction of signed magnitude data.
7	3	Multiplication and Division Algorithms .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Floating point Addition and Subtraction.
9	3	Input-Output organization : Peripheral Devices - I/O Interface .
10	4	Asynchronous data transfer.
11	4	Modes of transfer - Priority interrupt .
12	4	Direct memory access .
13	5	Memory Organization : Memory hierarchy - Main memory - Auxiliary memory .
14	5	Associative memory.
15	5	Cache and Virtual memory .

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Program - Factorial
2	1	Simple Program - prime number
3	1	Simple Program - Fibonacci series
4	2	String Functions: trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode,
5	2	String Functions: strrev,str_word_count,strcmp,strcasecmp
6	2	Arrays
7	3	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
12	4	Login form
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	Phone bill preparation.
11	4	Model exam

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA512S : MULTIMEDIA AND VIRTUAL REALITY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	sound-the power of sound-multimedia sounds-
2	2	MIDI-vs digital audio-digital audio- making MIDI audio
3	2	Audio file forma sounds-working with sound on macintosh
4	2	notation interchange file format(NIFF)
5	2	adding sound to your multimedia project-professional tips
6	2	Images: Making still Images – Color
7	2	Image file formats. Animation: The Power of Motion – Principles of Animation – Making animations that works.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction to virtual reality –goals of virtual reality, the human side of things, and the basic concepts of virtual reality,
9	4	Evaluation of virtual reality: Improvement of communication with computers. Early vision of virtual reality
10	4	State of virtual reality: sense of sound, touch,
11	4	other senses, world creating tools.
12	4	Virtual reality issues: display issues,
13	4	tracking issues, manipulation issues,
14	4	application issues,
15	4	navigation issues.

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple queries using DDL,DML,and DCL
2	1	SQL in built functions max,min,uppercase...etc
3	1	SET operations
4	2	views and subproblems
5	2	views and subproblems extra problems
6	2	joins examples
7	3	sub queries with joins

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PL/SQL block
9	3	procedures
10	4	functions
11	4	packages
12	4	packages more examples
13	5	triggers
14	5	cursors
15	5	cursors

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA614Q : OPEN SOURCE TECHNOLOGY (PHP)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASICS OF PHP:-History of php-Language basics:-Lexical structure-Data types- variables-Expressions and operators.
2	1	Flow control statements:if,if-else,while,do-while,switch,for,foreach-Functions:defining functions-variable scope(global and local variables).
3	1	Function parameters: call by reference-call by value-return values: return single value, multiple value-handling missing parameters-default parameters.
4	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strrev,str_word_count, strcmp, strc.
5	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.
6	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword- constructor.
7	3	Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime. Handling
9	3	Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
10	4	HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox.
11	4	Select-radiobutton-button-fileupload button-file download. Javascript –Javascript basics –validating forms.
12	4	Handling Session and Cookies: Global variables:-$_Globals, $_Server, $_request, $_Post, $_files, $_Cookies, $_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table.
14	5	Inserting data into the database-Updating databases.
15	5	Deleting records- Accessing the database records from PHP.

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs -Factorial
2	1	Simple Programs-prime number
3	1	Fibonacci series- Fibonacci series
4	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops)
5	2	String Functions:(substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
6	3	Arrays
7	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Functions-Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	5	Create a Home Page using PHP and validating the form using javascript.
10	6	Form creation using POST method
11	7	Database Operations
12	8	Login form
13	9	Student mark list creation
14	10	Electricity bill preparation
15	10	Model Practical Test

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CA509S : RELATIONAL DATABASE MANAGEMENT SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Introduction to SQL:DDL,DML,DCL
2	4	operations string functions – number functions – date functions-selecting distinct values – working with null values –pseudo columns-aggregate functions – grouping and ordering data - integrity constraints
3	4	sub queries – joins – union ,intersect & minus – indexes – clusters – views-snapshots – sequences – synonym – users, roles and privileges – grant and revoke permission – locks.
4	1	Definition – purpose of database systems – data abstraction
5	1	data models – instances and schemes – data independence – database manager
6	1	database administrator – database users – overall system structure.
7	2	Entities and entity sets – relationships and relationship sets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	attributes – mapping constraints – keys –E-R diagram
9	2	reducing E-R diagrams to tables – generalization – aggregation.
10	3	Normalization-First Normal Form.
11	3	Second Normal Form – Third Normal Form
12	3	Boyce – Codd normal form - Fourth Normal Form
13	5	PL/SQL overview-Declarations section-Executable commands section-Exception handling section
14	5	Procedures-Functions-Packages
15	5	Triggers-Cursor Management

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA615S : OPERATING SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: History of operating system,Operating system functions
2	1	file system
3	2	Process Management
4	2	Inter porcess Communication
5	2	Deadlock-Deadlock prerequisites-Deadlock strategies
6	3	Memory Management-single contiguous-Fixed partitioned-variable partitions
7	3	non contiguous-paging-Segmentation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Virtual Memory management
9	4	GUI: components of GUI-Requirements of windows based GUI
10	4	Security Protection: Threats- Attacks-Worms-virus
11	4	design principles-authentication-Protection mechanism-Encryption
12	5	Unix Os; Overview of UNIX-Unix File System Basic commands in unix
13	5	Unsers view of File System-tyoes of files-Internals of file system:logical layout of the file
14	5	the super blocak-structure of nodes-Address transl;ation-run-time data structure for file system:UFDT-file table -inode table
15	5	system calls: Open-Read-Write-Random seek-close-create a file-unlink a file-Change directory.

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: (trim,ltrim,rtrim,s
3	1	trtolower,strtoupper,ucfirst,ucwords,strops,
4	2	substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function:-floor,pow,round,rand,
7	3	sqrt,max,min,hexdec.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
11	4	. Database Operations
12	4	Login form
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple queries using DDL
2	1	simple queries using DML,DCL
3	2	SQL Built in functions
4	3	Set Operations
5	4	Views
6	4	Snapshots
7	5	Joins

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	Subqueries
9	7	PL/SQL Blocks
10	8	Procedures
11	9	Functions
12	10	Packages
13	11	Triggers
14	12	Implicit Cursors
15	12	Explicit Cursors

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Biodata
2	1	Biodata
3	1	Biodata
4	2	Color choser
5	2	Color choser
6	2	Color choser
7	3	Login form

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Login form
9	3	Login form
10	4	Notepad application
11	4	Notepad application
12	4	Notepad application
13	5	Session Program
14	5	Session Program
15	5	Session Program

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA616T : SOFTWARE ENGINEERING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Evolving Role of Software-Characteristics of Software
2	1	Software Myths-Process Models: Waterfall Model
3	1	Evolutionary Process Models.
4	2	Requirement Engineering: Tasks
5	2	Initiating the Requirements Engineering Process
6	2	Eliciting Requirements.
7	3	Building Analysis Model: Requirement Analysis - Data Modeling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Flow Oriented Modeling – Class Based Modeling
9	3	Creating a Behavioral Model.
10	4	Testing:Software Testing Methods - Software Testing strategies
11	4	White Box Testing – Basic Path- Control Structure
13	5	Project Management: Management Spectrum - Formal Technical Reviews
14	5	Change Management Process
15	5	Clean Room S/W Engineering Specification-Design and Testing.
12	4	Black box testing

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper)
3	1	String Functions: (ucfirst,ucwords,strops,substr,chartocode)
4	2	String Functions: (strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
7	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Home Page using PHP and validating the form using javascript.
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
11	4	Database Operations
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CA509S : RELATIONAL DATABASE MANAGEMENT SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purpose of dbms, Data abstraction
2	1	Data models, Instances and schemes,
3	1	Data Independence, Database Manager
4	1	Database Administrator, Database users
5	1	Overall system structure
6	2	Entity and entity sets, Relationship and relationshipsets
7	2	Attributes, Mapping constraints

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Keys, E-R Diagram
9	2	Reducing E-R diagram to tables
10	2	Generalization, Aggregation
11	3	Normal forms Introduction
12	3	First Normal form
13	3	Second normal form, Third normal form
14	3	Fourth normal form
15	3	Boyce codd normal form

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Project title
2	1	Project title
3	1	Project title
4	2	Requirement analysis
5	2	Requirement analysis
6	2	Requirement analysis
7	3	Project design

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Project design
9	3	Project design
10	4	Coding
11	4	Coding
12	4	Coding
13	5	Documentation
14	5	Documentation
15	5	Documentation

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	WINDOWS APPLICATION: Simple programs
2	1	To develop simple student bio data
3	1	Create a color chooser using standard control.
4	2	To develop Notepad Application.
5	2	To develop Notepad Application.
6	2	Login Form Creation using Ms Access.
7	3	Login Form Creation using Ms Access.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	WEB APPLICATION: Create an application to sending a request from one page to another using session.
9	3	Create a simple website for an organization using Master Page.
10	4	Create a simple website for an organization using Master Page.
11	4	To develop database application for student mark list processing using validation control (Oracle)
12	4	programs using using validation controls
13	5	To develop database application for student mark list processing using validation control (Oracle)
14	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)
15	5	To develop database Application for Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.(SQL server)

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to project
2	2	literature survey
3	3	project title chosen
4	4	project design
5	5	hardware and software requirements
6	6	project implementation
7	7	testing the project

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	review-1
9	9	review-2
10	10	review-2
11	11	review-2
12	12	review-2
13	13	review-2
14	14	review-2
15	15	review-2

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**BENJAMIN FRANKLIN I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA615S : OPERATING SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Operating Systems (OS) - History of OS (Zeroeth, First, Second, Third & Fourth Generation) - OS Functions (Data Security, Confidentiality) - Different Services of OS
2	1	User view of OS - GUI - The Kernel - Booting - Information Management - File System: Introduction - Disk Basics - Block and Block numbering scheme
3	1	Disk Space Allocation methods (Contiguous & Non-contiguous Allocation) - Directory Structure : User view - Actual view Revision and Class Test
4	2	Process Management: Multiprogramming - Context Switching - Different states of the process - Process state transition - Process Control Block - Operations on processes - Scheduling policy (Pre-emptive, Non-preemptive scheduling)
5	2	Levels of scheduling (Long-term, Medium-term, Short-term) - Short term scheduling policies (Round Robin, Scheduling based on priority, Priority Class and Heuristic) - Inter-process communication
6	2	Deadlock: Deadlock pre-requisites (Mutual exclusion, Hold & Wait, No Pre-emption, Circular wait) - Deadlock methods (or) strategies of Deadlock (Ignore, Recover, Prevent, Avoid, Detect) Revision and Class Test
7	3	Memory Management: Real Memory Management - Contiguous Real Memory Management - Non-contiguous Real Memory Management (Paging, Segmentation)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Virtual Memory Management System (VMMS): Locality of reference - Page fault - Page replacement policy - Dirty page & Dirty bit - Working set - Demand paging
9	3	Data structures required: Page Map Table (PMT) - File Map Table (FMT) - Relocation address Translation - Local Replacement Policy Revision and Class Test
10	4	Graphical User Interface: Windowing Technology - Components of GUI (Menu Bars, Scroll Bars, Controls, Dialog Box, Feedback) - Authentication (Password, Artifact-based, Human Characteristics)
11	4	Security & Prevention: Threats - Attacks on security - Virus (Transient, Resident) - Different stages of the virus - Virus Detection, Removal, Prevention - Worms - Mode of operations of worms
12	4	Safeguard against worms - Design principles in security - Encryption - Different encryption & Decryption Algorithm - Security in a distributed environment - Digital Signature Revision and Class Test
13	5	Overview of UNIX - UNIX File System - Different types of files - The internals of File System - Logical Layout of the System Architecture
14	5	The Structure of Inode - Address Translation - Runtime Data structures for file system - User File Descriptor Table (UFDT) - File Table
15	5	Inode Table - System Calls - Basic Commands in UNIX Overall revision and Model test

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LESSON PLAN

Name of the Staff	**BENJAMIN FRANKLIN I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA511 : DATA COMMUNICATION NETWORKS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to networks - Basics of networks Networks - Applications of Networks - Distributed Processing - Advantages of Distributed Processing
2	1	Protocols - Elements of Protocols - Standards - Types of Standards - Line Configuration
3	1	Topologies of Network - Transmission Mode - Categories of Networks - Internetworks -Revision and Class Test
4	2	Introduction to OSI Model - Layered Architecture of OSI - Functions of the Layers - TCP/IP protocol suite
5	2	Signals - Analog and Digital Signals - Periodic and Aperiodic Signals -Analog Signals - Digital Signal
6	2	ata Transmission - Data Terminal Equipment - Data Circuit Terminal Equipment - Introduction to Modems - Types of Modems - Revision and Class Test
7	3	Introduction to Transmission Media - Guided Media - Types of Guided Transmission Medium - Unguided Media - Types of Unguided Transmission Medium -Transmission Impairments - Media Comparison.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplexing - Frequency Division Multiplexing (FDM) - Time Division Multiplexing (TDM) - Wave Division Multiplexing (WDM) - Error Detection and Correction - Types of Errors
9	3	Error Detection Techniques - Vertical Redundancy Check (VRC) -Longitudinal Redundancy Check (LRC) - Cyclic Redundancy Check (CRC) - Checksum - Error Correction. - Revision and Class Test
10	4	Introduction to Switching Techniques - Circuit Switching - Space Division Switches - Crossbar and Multistage Switches - Time Division Switches - Time Slot Interchange (TSI) - TDM Bus
11	4	Packet Switching - Datagram Approach - Virtual Circuit Approach - Switched Virtual Circuit Approach - Message Switching
12	4	Networking and Internetworking Devices - Repeaters - Bridges - Simple Bridge - Multiport Bridges - Routers - Gateways. - Revision and Class Test
13	5	Introduction to Routing - Introduction to Routing Algorithms - Types of Routing Algorithms - Distance Vector Routing
14	5	Link State Routing - Introduction to Data Link Control - Line Discipline - ENQ/ACK - Poll/Select
15	5	Flow Control - Stop-and-Wait - Sliding Window - Error Control - Stop-and-Wait ARQ - Sliding Window ARQ - Overall revision and Model test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Simple Queries using DDL,DML and DCL
2	1	2. SQL In-Built Functions
3	1	3. SET Operations
4	2	4. Views
5	2	5. Joins
6	2	6. Sub Queries
7	3	7. PL/SQL Block

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	8. Procedures 9. Functions
9	3	8. Procedures 9. Functions
10	4	10. Packages 11. Triggers
11	4	10. Packages 11. Triggers
12	4	10. Packages 11. Triggers
13	5	12. Cursors
14	5	12. Cursors
15	5	12. Cursors

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	System Analysis-Requirement Gathering
2	1	Requirement Analysis-Initiating
3	1	Requirement Analysis-eliciting
4	2	Designing the Project
5	2	Structured and Un-Structured Design
6	2	UML Designing
7	3	Decision on Software to be used-Coding

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Decision on Software to be used-Coding-Interfaces and Imports
9	3	Decision on Software to be used-Coding-Interfaces and Imports
10	4	Testing-System Testing
11	4	White Box Testing
12	4	Black Box Testing
13	5	Maintenance Check
14	5	Quality Assurance Check
15	5	Feed Back-Report Generation

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To develop simple student bio data
2	1	To develop simple student bio data
3	1	Create a color chooser using standard control.
4	2	Create a color chooser using standard control.
5	2	To develop Notepad Application
6	2	To develop Notepad Application
7	2	Login Form Creation using Ms Access

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create an application to send a request from one page to another using session
9	3	Create an application to send a request from one page to another using session
10	4	Create a web page for an Organisation using Master Page
11	4	Create a web page for an Organisation using Master Page
12	4	Develop Database Application for Student Mark list Processing using Validation Control
13	5	Develop Database Application for Telephone Directory
14	5	Develop Database Application for Telephone Directory
15	5	Develop Database Application for Telephone Directory

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA616T : SOFTWARE ENGINEERING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Software Engineering: Evolving role of Software
2	1	Characteristics of Software ,Software Myths
3	1	Process Models: Waterfall Model, Evolutionary Process Model
4	2	Requirement Engineering: Tasks
5	2	Initiating the Requirements Engineering Process
6	2	Eliciting Requirements
7	3	Building Analysis Model: Requirement Analysis, Data Modeling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Flow Oriented Modeling
9	3	Class based Modeling, Creating a Behavioural Model
10	4	Testing: Software Testing Methods
11	4	Software Testing Strategies, White Box Testing, Basis Path Testing
12	4	Control Structure Testing, Black Box Testing
13	5	Project Management: Project Management Spectrum, Formal Technical Reviews
14	5	Software Change Management Process
15	5	Clean Room Software Engineering Specification, Design and Testing

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	System Analysis: Requirements Gathering
2	1	System Specification
3	1	System Specification
4	2	System Design
5	2	System Design
6	2	System Design
7	3	Coding

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Coding
9	3	Coding
10	4	Testing
11	4	Testing
12	4	Testing
13	5	Implementation
14	5	Implementation
15	5	Implementation

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
3	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
4	2	Arrays
5	2	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
6	2	Functions-Math function:-floor,pow,round,rand,sqrt,max,min,hexdec. Date and Time functions:-strtotime,mktime,data_default_timezone_set.
7	3	Create a Home Page using PHP and validating the form using javascript.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Form creation using POST method
9	3	Database Operations
10	4	Database Operations
11	4	Login form
12	4	Student mark list creation
13	5	Student mark list creation
14	5	Electricity bill preparation.
15	5	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample program using console application
2	1	1. To develop simple student bio data 2. To develop calculator program using windows application
3	1	1. Create a color chooser using standard control. 2. practical test
4	2	1. To develop Notepad Application. 2. To develop student mark-list using windows application
5	2	4. Login Form Creation using Ms Access.
6	2	Sample programs in C#
7	3	Test in practical program

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	WEB application sending a request from one page to another session
9	3	Create simple website using master page
10	4	Model practical
11	4	Create Students marklist using database
12	4	Create a website using validation controls
13	5	Create a program using AdRotator and calendar WEB controls
14	5	To develop a telephone directory program working with Grid controls
15	5	Revision

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LESSON PLAN

Name of the Staff	**ROBERT ADAIKALARAJ J**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introducing PHP Environment
2	1	Simple Programs (Factorial , prime number, Fibonacci series)
3	1	Simple Programs (Factorial , prime number, Fibonacci series)
4	2	String Functions
5	2	String Functions
6	2	Arrays
7	3	Functions Math function

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Functions Date and Time functions
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
11	4	Database Operations
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**ECA613T : COMPUTER ARCHITECTURE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit: General register and stack organization
2	1	Instruction formats - Addressing modes
3	1	Data Transfer and Manipulation instructions.
4	2	Pipelining: Arithmetic, instruction pipeline
5	2	RISC pipelining.
6	2	Computer Arithmetic : Addition and subtraction of signed magnitude data.
7	3	Multiplication and Division Algorithms .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Floating point Addition and Subtraction.
9	3	Input-Output organization : Peripheral Devices - I/O Interface .
10	4	Asynchronous data transfer.
11	4	Modes of transfer - Priority interrupt .
12	4	Direct memory access .
13	5	Memory Organization : Memory hierarchy - Main memory - Auxiliary memory .
14	5	Associative memory.
15	5	Cache and Virtual memory .

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple queries using DDL,DML,and DCL
2	1	SQL in built functions max,min,uppercase...etc
3	1	SET operations
4	2	views and subproblems
5	2	views and subproblems extra problems
6	2	joins examples
7	3	sub queries with joins

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PL/SQL block
9	3	procedures
10	4	functions
11	4	packages
12	4	packages more examples
13	5	triggers
14	5	cursors
15	5	cursors

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LESSON PLAN

Name of the Staff	**VIDHYALAKSHMI R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple bio data
2	1	simple bio data-practice
3	1	color chooser program
4	2	notepad applications
5	2	login form
6	2	login form more examples
7	3	sending request from one page to another page

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	sending request from one page to another page
9	3	sending request from one page to another page-practice
10	4	simple website using master page
11	4	sending request from one page to another page-practice
12	4	database application using validation control for student mark list
13	5	Telephone directory application using grid view
14	5	Telephone directory application using grid view
15	5	practice database programs

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CA614Q : OPEN SOURCE TECHNOLOGY (PHP)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Handling Web Pages: HTML – HTML tags-tables-frames-images-textfiled-textarea-listbox-checkbox-select-radiobutton-button-fileupload button-file download.
2	4	Javascript –Javascript basics –validating forms.
3	1	BASICS OF PHP:-History of PHP-Language basics:-Lexical structure-Data types-variables-Expressions and operators-flow
4	1	control statements:if,if-else,while,do-while,switch,for,foreach-Functions:defining functions-variable scope(global and local variables)-function parameters: call by reference-call by value-
5	1	return values: return single value, multiple value-handling missing parameters-default parameters
6	2	STRING: String constants-printing string functions: print, print_r, printf, echo, var_dump-string manipulation functions: trim, ltrim, rtrim, strtolower, strtoupper, ucfirst, ucwords, strpos, substr,chartocode, strlen, strrev,str_word_count, strcmp, strc.
7	2	ARRAY: Indexed – Associative-multidimensional arrays-Array Sorting: sort, asort, ksort, rsort, arsort, krsort, usort, uasort, uksort, ord functions.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	OOPS IN PHP: Class, Object, Inheritance, Creating a class-creating object-accessing properties and methods-this variable – inheritance-use of extend keyword-constructor.
9	3	BUILT IN FUNCTIONS IN PHP: Mathematical functions: floor, fmod, pow, round, rand, sqrt, max, min, log, hexdec.
10	3	Date and Time Functions: data, data_default_timezone_set, strtotime, mktime.
11	3	Handling Files: create- fopen - fread - fwrite – include – fclose – unlink – fgets – fgetc – feof - require-require_once.
12	4	Handling Session and Cookies: Global variables:-$_Globals, $_Server, $_request, $_Post, $_files, $_Cookies, $_Session.
13	5	Working with Databases: Creating a MYSQL database-Creating a new Table
14	5	Inserting data into the database-Updating databases-Deleting records-
15	5	Accessing the database records from PHP.

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP505T : PRACTICAL - V RDBMS - ORACLE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	. Simple Queries using DDL,DML and DCL
2	2	SQL In-Built Functions
3	3	SET Operations
4	4	Views and Snapshots
5	5	Joins
6	6	.Sub Queries
7	7	PL/SQL Block

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Procedures
9	9	Functions
10	10	Model Exam I
11	10	Packages
12	11	Triggers
13	12	Cursors
14	12	Revision
15	13	Model exam II

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	sample programs on HTML
2	1	sample programs on JAVASCRIPT
3	5	Create a Home Page using PHP and validating the form using javascript.
4	1	Sample programs on Introduction to PHP
5	1	Simple Programs (Factorial , prime number, Fibonacci series)
6	2	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper,ucfirst,ucwords,strops,substr,chartocode, strlen,strrev,str_word_count,strcmp,strcasecmp)
7	3	Arrays

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
9	4	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
10	5	Model exam on exercises from 1- 5
11	6	Form creation using POST method
12	7	Database Operations
13	8	Login form, Student mark list creation
14	9	Electricity bill preparation.
15	10	Model exam on exercises from 6-10

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CA509S : RELATIONAL DATABASE MANAGEMENT SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Database Management System: Definition – purpose of database systems – data abstraction –.
2	4	Introduction to SQL:DDL,DML,DCL operations – integrity constraints – string functions – number functions
3	1	data models – instances and schemes – data independence – database manager .
4	1	database administrator – database users – overall system structure.
5	4	date functions-aggregate functions – selecting distinct values – working with null values –pseudo columns – grouping and ordering data
6	4	sub queries – joins – union ,intersect & minus – views-snapshots
7	2	Entity – Relationship Model: Entities and entity sets – relationships

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	relationship sets – attributes – mapping constraints – keys
9	2	E-R diagram – reducing E-R diagrams to tables – generalization – aggregation.
10	4	indexes – clusters – sequences – synonym – users, roles and privileges – grant and revoke permission – locks.
11	3	Normal Forms: First Normal Form – Second Normal Form – Third Normal Form –
12	3	Boyce – Codd normal form - Fourth Normal Form
13	5	Introduction to PL/SQL: PL/SQL overview-Declarations section-Executable commands section-
14	5	-Exception handling section-Procedures-Functions
15	5	Packages-Triggers-Cursor Management.

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**ECA512A : COMPUTER GRAPHICS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to computer Graphics: Video display devices – Raster scan system – Random Scan System – color CRT, Flat panel display.
2	1	Interactive input Devices – Hard copy devices – Graphics software – Output primitives
3	2	line drawing algorithms –DDA algorithm,Bresenham;s Algorithm- initializing lines – Line function – circle Generating algorithms.(Mid-point algorithm)
4	2	Output Primitives: Attributes of output Primitives – line attributes(Lisne sixe,color,type)
5	2	Color and Grayscale style – Area filing algorithms – Character attributes -Inquiry functions
6	2	Two dimensional transformations – Basic transformation – Translation,rotation,Scaling
7	2	composite transformation – Matrix representation –Other transformations-shear,reflection.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	2D Concepts: Two – dimensional viewing –interactive input methods – Physical Input devices – logical classification of input devices –
9	3	window – to view port co-ordinate transformation
10	3	clipping algorithms -interactive picture construction methods.
11	4	3D Concepts: Three – dimensional concepts – Three dimensional display methods
12	4	parallel Projection –Perspective projection
13	4	Depth Cueing – Visible line and surface identification.
14	5	Transformations: Three dimensional transformations
15	5	Three dimensional viewing – Projection – Viewing transformation – implementation of viewing operations.

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Biodata
2	1	Biodata
3	1	Biodata
4	2	Color choser
5	2	Color choser
6	2	Color choser
7	3	Login form

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Login form
9	3	Login form
10	4	Notepad application
11	4	Notepad application
12	4	Notepad application
13	5	Session Program
14	5	Session Program
15	5	Session Program

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**CAP607Q : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs (Factorial , prime number, Fibonacci series)
2	1	String Functions: (trim,ltrim,rtrim,strtolower,strtoupper)
3	1	String Functions: (ucfirst,ucwords,strops,substr,chartocode)
4	2	String Functions: (strlen,strrev,str_word_count,strcmp,strcasecmp)
5	2	Arrays
6	2	Functions-Math function:- floor,pow,round,rand,sqrt,max,min,hexdec.
7	3	Date and Time functions:- strtotime,mktime,data_default_timezone_set.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Home Page using PHP and validating the form using javascript.
9	3	Create a Home Page using PHP and validating the form using javascript.
10	4	Form creation using POST method
11	4	Database Operations
12	4	Database Operations
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Project title
2	1	Project title
3	1	Project title
4	2	Requirement analysis
5	2	Requirement analysis
6	2	Requirement analysis
7	3	Project design

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Project design
9	3	Project design
10	4	Coding
11	4	Coding
12	4	Coding
13	5	Documentation
14	5	Documentation
15	5	Documentation

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**5**
Subject	**CAP506T : PRACTICAL VI PROGRAMMING USING MICROSOFT TECH**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To develop simple student bio data
2	1	To develop simple student bio data
3	1	To develop simple student bio data
4	2	Create a color chooser using standard control
5	2	Create a color chooser using standard control
6	2	Create a color chooser using standard control
7	3	To develop Notepad Application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To develop Notepad Application
9	3	To develop Notepad Application
10	4	Login Form Creation using Ms Access
11	4	Login Form Creation using Ms Access
12	4	Login Form Creation using Ms Access
13	5	Create an application to sending a request from one page to another using session.
14	5	Create an application to sending a request from one page to another using session.
15	5	Create an application to sending a request from one page to another using session.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PADMAVATHI**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**6**
Subject	**JCA601 : MINI PROJECT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to project
2	2	literature survey
3	3	project title chosen
4	4	project design
5	5	hardware and software requirements
6	6	project implementation
7	7	testing the project

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	review-1
9	9	review-2
10	10	review-2
11	11	review-2
12	12	review-2
13	13	review-2
14	14	review-2
15	15	review-2

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**19AEBM22 : MONETARY ECONOMICS**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Money -Definition- Money as Store of Value -Money as Medium of Exchange.
2	3	Classical view of Money - view of Cambridge economists.
3	3	Keynesian view of Demand for Money -three motives-Liquidity Trap.
4	3	The supply of Money-Money supply & Economic activity.
5	3	Creation of Money- Bank as a Creator of Money.
6	3	Central Bank as creator of Money-The Government as Creator of Money .
7	3	Neutrality of Money - Velocity of circulation of Money.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Velocity of circulation of Money.
9	3	REVISION
10	4	Meaning & Definition of Inflation.
11	4	Characteristics Of Inflation-Types of Inflation.
13	4	Demand Shift Inflation-Inflationary Gap .
14	4	Effects of Inflation-Anti-inflationary Measures.
15	4	REVISION
12	4	Types of Inflation-Causes of Inflation-Demand Pull Inflation-Cost Push Inflation .

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Greeting Seeking,Giving, Refusing Permission Exercise
2	2	Verbal Communication Conversation
3	3	Telephone Conversation
4	4	Role play
5	5	Simple sentences
6	6	Framing questions
7	7	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Speaking skill
9	9	Framing long sentences
10	10	Translating simple sentences from Tamil to English
11	11	Reading Skill
12	12	Reading Skill
13	13	Framing simple questions
14	14	Writing skill
15	15	Grammar test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PUNNIYA SEELAN R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**BM203Q : FINANCIAL ACCOUNTING - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Average Due Date-meaning of Average due date-Uses of Average due date
2	1	Basic problems in average due date-calculation of interests
3	1	Account current-counting of days-methods of calculating interests-simple problems
4	2	Branch – meaning - Types of branches - Department branches – difference between branch and Department
5	2	Preparation of trading account of branches under debtor system – Stock and debtors system
6	2	Whole sale branch system and Final account systems- unit test
7	3	Introduction – Allocation of expenses – Calculation department purchase I

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of trading and Profit & Loss account of the department-cost price method
9	3	Preparation of trading and Profit & Loss account of the department -interdepartmental transfers at cost price – Selling price
10	4	Accounting Treatments - Admission of partner -Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
11	4	Accounting Treatments -Retirement of Partner -Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
12	4	Accounting Treatments - Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
13	5	Dissolution of firm – Modes of dissolution -normal dissolution - simple problems
14	5	Insolvency of a partner - Garner Vs Murray rule - Insolvency of all partner –simple problems
15	5	Piecemeal distribution – proportionate capital method- Maximum loss Method (simple problems)-- unit test

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LESSON PLAN

Name of the Staff	**Dr. E. Ruby Violet Rani**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**VE101T : VALUE EDUCATION**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valurs
2	1	Source
3	1	Erosion of value
4	2	Learning
5	2	Theories
6	2	Continued
7	3	Memory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stages of memory
9	3	Modelling
10	4	Emotions
11	4	Theories
12	4	Pleasant emotions
13	5	Intelligence
14	5	Determinants
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Teaching Spelling
2	1	Story Telling
3	1	Quiz Game
4	2	Seminar
5	2	Debate
6	2	Group Discussion
7	3	Book review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	C I A
9	3	Literary Review
10	3	Film Review
11	4	Speech on Current Events
12	5	Situational Addressing
13	1	Test
14	2	C I A
15	5	Test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURANAANOORU AGANANOORU
2	1	KURUNTHOGAI, NATRINAI, PARIPADAL.
3	3	THIRUKURAL : ATHIGARAM--------VINA ISEYAL VAGAI
4	3	THIRUKURAL- ATHIGARAM------ PORUL SEYALVAGAI
5	3	THIRUKURAL-- ATHIGARAM --------THERINTHU SEYAL VAGAI
6	4	PATHINEN KIZHKANNAKKU NOOLGAL ILLAKIYA VARALARU
7	4	SANGA KAALAM ,, MOONDRU SANGANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN, VINNAPPANGAL,, KADITHANGAL
9	5	SURUKI VARAITHAL, SEITHI SEGARIPPU,,, NER KAANAL
10	2	PATTINA PAALAI 120 TO 192 LINES
11	2	SIRUPAAN AATRUPADAI: KADAIYEZHU VALLALGAL
12	2	PATHUPAATIL MADURAI KANCHI
13	2	MULLAI PAATTU PASARAI IYALBU
14	4	AATRUPADAI NOOLGAL
15	4	AATRUPADAI NOOLGAL

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**BM102T : FINANCIAL ACCOUNTING - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Accounting-Introduction-Meaning and definition-Types of Accounting-Accounting concepts and Conventions
2	1	Double entry system- Accounting Rules- Journal-ledger-Subsidiary Books- Trial Balance
3	1	Preparation of Profit and loss A/c and Balance Sheet-Advantages and disadvantages of Accounting- Uses of Financial Statement- Accounting of sole trading concern and non-trading concern.
4	2	Single Entry System- Meaning and Definition- Preparation of Trading profit and loss A/c and statement of affairs
5	2	Net worth Method- Conversion Method
6	2	Difference between Single entry system &Double entry system-Difference between Balance Sheet and Statement of Affairs.
7	3	Accounting for Non-trading concerns- Meaning and Definition of Income, Expenditure, General and Special Funds

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet
9	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet
10	4	Consignment- Meaning- Accounting for consignment transaction
11	4	stock valuation- preparation of consignment A/c- Normal loss and Abnormal loss calculation.
12	4	stock valuation- preparation of consignment A/c- Normal loss and Abnormal loss calculation.
13	5	Joint Venture- Meaning and Definition- Difference between partnership and joint venture
14	5	Journal entries for Joint Venture transactions when separate book for joint venture is maintained
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**19BM204 : BUSINESS CORRESPONDANCE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business Correspondence – Need – Functions
2	1	Kinds of Business Letters – Essentials of an Effective Business Letter
3	1	Essentials of an Effective Business Letter – Layout.
4	2	Business enquiries and replies – Credit and status enquiries – Placing orders –
5	2	Sales letters – Collection letters. Application for employment – References
6	2	Letters of appointment – Confirmation – Promotion.
7	3	Bank Correspondence – Insurance Correspondence

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Agency Correspondence – Correspondence with Shareholders, Directors.
9	3	Correspondence with Shareholders, Directors.
10	4	Reports Writing – Agenda, Minutes of Meeting
11	4	Memorandum – Office Order
12	4	Circular – Notes.
13	5	SMS – Email – Video Conferencing – Internet
14	5	Mobile Communication – Websites and their use in Business.
15	5	Revision & Class Test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	1. Understanding Communication 2. Greeting and Introducing 3. Making Requests 4. Agreeing and Disagreeing
2	2	5. Seeking and Giving Permission 6. Persuading and Debating 7. Sounds and Symbols in English 8. Word and Sentence Stress
3	2	9. Effective Use of Intonation 10. Telephone Manners in Business Situations 11. Handling Customer Orders and Enquiries 12. Handling Complaint Calls
4	1	1. Character is Destiny – S. Radha Krishnan (Prose) 2. All the World's a Stage – William Shakespeare (Poetry)
5	1	3. The Never Never Nest – Cedric Mount (Play)
6	5	1. Note – Making 2. Report – Writing
7	1	I CIA Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	4	1. Effective Listening 2. Understanding the Audience 3. Perceptual Clarity 4. Channel Awareness
10	4	5. Role of Non – Verbal Communication 6. Pragmatics 7. Handling Delivery and After – Sales Problems 8. Taking Part in Teleconferences 9. Tele – Interviews
11	3	1. The Gift of the Magi – O'Henry (Short Story) 2. Mallala Yousafzai Pakistani Activist – Naomi Blumberg (Biography)
12	3	3. The Monkey's Paw – W.W Jacob (One – Act Play)
13	5	1. Note – Making 2. Report – Writing 3. Publicity Literature (Advertisements)
14	2	II CIA
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Women - S. Radhakrishnan (Prose)
2	1	The Solitary Reaper – William Wordsworth (Poem) The Purple Dress – O'Henry (Short Story)
3	2	Preparing Agenda for Meetings Writing Minutes of Meetings Making Notes of Business conversations Making Business Presentations Business promotions and Language for Advertising
4	2	Negotiating Communication Skills with Public, Fellow Employees, Supervisors and Customers Soft Skills for Team Building Team Maintenance and Task Maintenance roles Brainstorming and Consensus –Making Communication
5	3	Standard Business Letter Applying for Jobs and Preparing Resumes
6	3	Writing cover letters for resumes
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Importance of Effective Communication in Business Contexts Face – to - Face Communication with Customers and Visitors. Basic Skills for Talking to People in Transactional Situations
9	4	Receiving Visitors Booking Hotel Accommodation Making Small Talk and Telling Stories. Group Discussions
10	4	Preparing for Interviews Taking Interviews Promotion Interviews
11	5	Standard Business Letter
12	5	Applying for Jobs and Preparing Resumes
13	5	Writing cover letters for resumes
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Paradathesam
2	1	Ulagappan pattu
3	1	Vairamuththu (Puthiya erpadu)
4	3	Indhumathi - Kuruthu, Vinayagamurthi - Parisu
5	3	sevvalai -arigar anna
6	5	Ani elakkanam - uvamai ani, eduthukattu uvamai ani, solporul uvamai ani,
7	5	tharkuripetrani, Vallortru megum edam, mega edam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Silapathigaram
9	2	Manimegalai, kamparamayanam
10	2	Manigavasagar-thirugothumpi thaumanavar-Paraparakanni
11	2	kutralaguravanchi
12	4	Urainadai - Nalvalvu,
13	4	Urainadai - panpadu
14	4	Urainadai - Pothumai oru Aram
15	4	Urainadai - Neenthuga

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LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to business economics, meaning,definition, nature and scope of business economics. And economist role, role of business economist.
2	1	Price determination, Quality and Quantity and Profit Maximization
3	1	Relationship of Business Economics and other disciplines. like Micro Economics, Macro Economics, Indian Economics, International Economics.
4	2	Demand Analysis, meaning of demand and factors influencing demand, Income, price and willingness to pay
5	2	Law of Demand, meaning and definitions, exception to the law of demand like giffen paradox, demonstration effect, fear to rise price.
6	2	Elasticity of Demand ,Types of Elasticity of Demand ,Demand Forecasting,Meaning Definition,Objectives. price elasticity, Income and Cross elasticity of demand
7	3	Indifference curve analysis, meaning of indifference curve and what is different names of indifference curve and map

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	properties of indifference curve and marginal rate of substitution
9	3	Indifference Map Budget line or Price line-, Consumer's Equilibrium Consumer Surplus .
10	4	Theory of Production, what is production and meaning of production, Factors of Production
11	4	production function and importance of production function , Input and output method
12	4	The Cobb-Douglas Production Function The Law of Variable Proportions ,The Law of Returns to Scale .
13	5	Cost functions- Meaning of cost, short run cost curves, Marginal cost Average cost
14	5	Total Cost, fixed cost, and variable cost and other cost
15	5	Relationship between average cost and Marginal cost and long run average cost curve.

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LESSON PLAN

Name of the Staff	**Dr.M. MONIKA**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**19BM101 : PRINCIPLES OF MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition & Meaning of Management - Functions of Management - Managerial skills
2	1	Level of Management - Roles of Manager, Management as a science or Art - Approaches to Management
3	1	Contribution to Management by F. W. Taylor, Hendry Fayol, Elton Mayo, Peter F. Ducker and C. K. Prahalad
4	2	Planning - Importance - Process of Planning - Types of planning
5	2	Planning Methods (objectives - Policies - Procedures - Stategies & Programmes) - Obstacles to effective planning
6	2	Decision Making - Steps - Types - Decison Tree
7	3	Organization - Importance - Principles of Organizing Delegation & Decentralization - Departmentation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Span of Management - Organisational Structure - line & staff and functional - organizational charts and manual-making organizing effective
9	3	Staffing - Recruitment - Selection - Training , Promotion and appraisal
10	4	Function of directing - Motivation - Theories of Motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques
11	4	Communication - Function - Process - Barriers to effective Communication
12	4	Leadership - Definition - Theories and approach to leadership - Styles of Leadership - Types
13	5	Co-Ordination and Control: Nature - Problems. Control - Characteristics - Types - Steps - Advantages - Limitations.
14	5	Techniques of Control (Traditional, Modern techniques, budgetary Control, Break Even Point (BEP) Analysis)
15	5	Return on Investment Control - Responsibility Accounting - Network Techniques - PERT and CPM

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LESSON PLAN

Name of the Staff	**PUNNIYA SEELAN R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**BM306S : CORPORATE ACCOUNTING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Issue of Shares-Introduction-Meaning-Definition-Features-Kinds of shares-Under Subscription and Over Subscription
2	1	Issue of shares at par-At Premium-At -Discount-Calls-in-arrears-Calls-in-advance-problems and solution
3	1	Forfeiture of Shares -Reissue of Forfeited shares- Balance Sheet (Revised Schedule VI) -problems and solution-unit test
4	2	Acquisition of Business-Meaning- -Purchase consideration- Net asset method-Net payment method- Journal entries in new set of books are opened - problems and solution
5	2	Debtors and Creditors taken over on behalf of vendors – problems and solution
6	2	Profits prior to incorporation -Meaning- Methods of Ascertaining profit or loss Prior to Incorporation-Basis of Apportionment of Expenses - problems and solution- unit test
7	3	Introduction- Legal requirements- schedules and its preparation-procedure and provision relating to preparation of schedules

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Statement of profit and loss- (Part II of Revised Schedule VI)- problems and solution-CIA-I
9	3	Balance Sheet-(Part I of Revised Schedule VI)-Managerial Remuneration - problems and solution- unit test
10	4	Liquidation of Companies meaning of liquidation or winding up – Modes of winding up –Winding up by the Court, Compulsory, Voluntary, Members, Creditors
11	4	Order of Payment –Secured Creditors – Preferential Creditors – Liquidator's Final Statement of accounts. - Problems and solution
12	4	Liquidator's Final Statement of accounts when shares have different paid up value- - problems and solution - unit test
13	5	Bank-Meaning-Legal requirements- schedules and its preparation- procedure and provision relating to preparation of schedules
14	5	Preparation of profit and loss accounts (Form 'B' of Schedule III) -- problems and solution
15	5	Balance Sheet (Form 'A' of Schedule III)-. - Problems and solution- unit test plus CIA-II

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LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**BM408Q : BANKING LAW AND PRACTICES**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bank –Meaning, Definition, Classification, types of banks and their functions and Services- Banking system in India.
2	1	Commercial Banks -Primary Functions - Functions of Modern Commercial Banks - Modern functions of Commercial Banks - Universal Banking - Central Bank - Features.
3	1	Functions of Central Bank - Credit control measures - EXIM Bank - Deposit Insurance and Credit Guarantee Corporation.
4	2	Cheque - Essentials of a Cheque - Crossing of a Cheque - Specimen of a Cheque - General Crossing - Special Crossing - Payment of Cheque - Collection of Cheque-
5	2	Endorsement - Transfer of negotiable endorsements - Legal effects - Rules pertaining to endorsement - Different types of endorsement.
6	2	Debit Card - Credit Card - Green Card - Smart Card - Functions, Advantages and Disadvantages.
7	3	Banker - Customer - General and Special relationship between Banker and Customer - Right of lien

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Special features of Banker's Lien - Opening of Current - Saving - Recurring - Fixed deposit Accounts -
9	3	Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions.
10	4	National Bank for Agricultural and Rural Development (NABARD) - Objectives - Features - Functions .
11	4	Co-operative Banks - Regional Rural Banks (RRBs) - Objectives - Features - Functions .
12	4	Contribution to social and rural development - Micro Credit(SHGs) - Objectives - Features - Functions .
13	5	E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs - Cash Machine - Electronic Money
14	5	Electronic Fund Transfer System (EFT) - Indian Financial Network - Customer Grievances Redressal and Ombudsman
15	5	Authority for Banking Ombudsman - Procedure for Grievance Redressalin Banking Ombudsman -core banking system – Electronic Clearing Services (ECS).

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**BM307T : PRINCIPLES OF MARKETING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Market- Meaning- Definition- Classification of markets. Marketing – Meaning – Definition- Evolution – Approaches
2	1	Modern marketing concepts - Marketing Mix with Extended 7Ps and 10 Ps-- Meaning-Concepts - Role of Marketing in Economic Development
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation - Benefits and Limitations , Criteria for Market segmentation.
4	2	Meaning- Features-Classification of products- Product Mix-Product Innovation- Benefits .
5	2	New Product Development- Methods adopted to introduce a new product - Levels adopted in new product development - Product Life Cycle- Stages .
6	2	Branding- Meaning- Advantages and Limitations - Packaging-Meaning- Kinds- Labeling- Meaning-Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Methods of pricing

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Objectives- Factors affecting pricing decisions - Pricing Policies- Methods used in pricing policies.
9	3	Procedure for price determination- Kinds of Pricing
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen --
11	4	Agents and Merchant Middlemen-Wholesalers –Types -- Services rendered by wholesalers - Retailers- Types .
12	4	Requisites – Services rendered by retailers- Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
13	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
14	5	Advertising- Meaning and definition– Medias- Advantages- Limitations –Advertising copy – Definition.
15	5	Elements of an Advertisement copy – Introduction to Cinema Advertising, SocialMedia Advertising,- Web Advertising, and Mobile Advertising.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow –
5	2	ecological succession – food chains, food webs and ecological pyramids –
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act –
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**BM305T : INDIAN FINANCIAL SYSTEM**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Financial System: Meaning, significance and components
2	1	Composition of Indian financial system
3	1	Indian money market – Indian capital market.
4	2	Reserve Bank of India: Organization;
5	2	Management; Functions
6	2	credit creation and credit control; monetary policy.
7	3	Commercial Banks: Meaning; Functions;

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Management and investment policies of commercial banks;
9	3	recent trends in Indian commercial banks.
10	4	All India Development Banks: Concept, objectives, and functions of various all India Development Banks;
11	4	Operational and promotional activities of all India Development Banks
12	4	Operational and promotional activities of all India Development Banks – UTI.
13	5	State Level Development Banks: Objectives, functions and role of state level banks;
14	5	State financial corporations; Development banks in industrial financing.
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**BM409S : COST ACCOUNTING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cost accounting – Meaning – definition – objectives – advantages – limitations –methods of costing – types of costing – differences between cost accounting
2	1	management accounting and financial accounting -Cost – Element of cost– meaning – definition– cost sheet
3	1	Preparation of cost sheet – tenders and quotation.
4	2	Material control - Meaning objectives – need – advantages .l - Inventory control and its techniques – Stock levels and EOQ
5	2	Methods of pricing material issues – FIFO – LIFO – HIFO – Simple average method
6	2	Weighted average method – Standard price method – Base stock method.
7	3	Overheads – meaning – definitions – importance – classifications

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Primary distribution – secondary distribution of overheads
9	3	Secondary distribution of overheads – machine hour rate computation.
10	4	Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing.
11	4	Procedure of contract costing, profit on incomplete contracts, Problems.
12	4	Profit on incomplete contracts, Problems.
13	5	Marginal costing – definition – features – advantages – limitations – breakeven analysis
14	5	PV ratio - margin of safety - Application of break even analysis
15	5	Revision & Class Test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**ASBM301Q : BUSINESS STATISTICS**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Index numbers introduction, Uses of index Numbers ,Problems in the Construction of Index Numbers .
2	4	Methods of Constructing Index Numbers – Simple Aggregative Method related problems and Weighted Aggregative Indices related problems.
3	4	Laspeyre's method explain the formula, and related problems Paasche's method explain the formula, and related problems Bowley's method explain the formula, and related problems and Fisher Ideal Method explain the formula, and related problems.
4	4	Weighted Aggregative Indices Quantity and value Indices
5	4	chain index number given find fixed base index number related problems, fixed base index number given find chain base index number related problems, using link relative method related problems.
6	4	Tests of adequacy of Index Numbers:Time Reversal test, Factor Reversal test prove the condition (problems only).
7	4	Family Budget method related problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Time Series – definition Uses and Components of Time series analysis . Additive model and multiplicative model of time series,
9	5	Secular Trend, Seasonal variations, Cyclical variation, Irregular Variations Measurement of Trend: Semi-average method related problems,
10	5	the methods of measuring trend (or) Secular trend-Graphic method or free-hand Method of semi-average Method of moving average, Method of least squares
11	5	measuring the seasonal variation
12	5	Methods of simple average, basic definitions, explain the simple formulas, and related problems.
13	5	Ratio to trend method explain the formulas, and related problems.
14	5	Ratio to moving average method related problems
15	5	Link relative method related problems

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LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**BM410S : FINANCIAL MARKET AND SERVICES**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	FINANCIAL MARKET IN INDIA Meaning and Significance. Systems and objectives
2	1	Money market: Indian money market's composition and structure Money market instruments And meaning and importance
3	1	Acceptance House, Discount House, and call money market & recent trends in Indian money market
4	2	CAPITAL MARKET Security market, meaning, importance Objectives of capital market new issue market or primary market meaning and importance Secondary market importance and objectives
5	2	Functions of capital market Role and function Primary market and secondary market
6	2	role in stock exchanges: Listing Procedure and legal requirements Public issue-pricing and marketing
7	3	Stock Exchanges - meaning and objectives SEBI role and regulation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Functionaries on Stock Exchanges: Brokers, Sub Brokers, meaning and role of brokers abs subborker
9	3	Jobbers, Portfolio consultants, institutional investors, and NRI's NSE and Over -the-counter exchange
10	4	Security Contract and regulation Act: Main provisions. Investors Protection:
11	4	Grievance concerning stock exchanges dealings and their removal Types of grievance and claim
12	4	Grievance cells in stock exchanges; SEBI: company law board; Press; Remedy through courts
13	5	Financial Services: meaning and importance Need
14	5	Merchant banking – Functions and roles;
15	5	SEBI guidelines; Credit ratings-concepts, Functions and types.

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LESSON PLAN

Name of the Staff	**Dr.M. MONIKA**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**ABM401 : BANKING TECHNOLOGY**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Branch operation and core banking - Introduction and Evaluation of Bank Management
2	1	Technological Impact in BankingOperations - Total Branch Computerization - Concept Opportunities
3	1	Centralized Banking - Concept, Opportunities, challenges & Implementation
4	2	Delivery Channels - Overview of Delivery Channels - Automated Teller Machine (ATM)
5	2	Phone Banking - Call Centers - Internet Banking - Mobile Banking
6	2	Payment Gateways - Card Technologies - MICR Electronic Clearing
7	3	Back Office Operations - Bank Back Office Management - Inter Branch Reconciliation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Treasury Management - Forex Operations - Risk Management - Data Center Management
9	3	Network Management - Knowledge Management (MIS/DSS/EIS) - Customer Relationship Management (CRM)
10	4	Interbank Payment System - Interface with Payment System Network - Structured Financial Messaging System
11	4	Electronic Fund transfer - RTGS - Negotiated Dealing Systems & Securities Settlement Systems
12	4	Electronic Money - E Cheques
13	5	Contemporary Issues in Banking Techniques
14	5	Analysis of Rangarajan Committee Reports
15	5	E Banking - Budgeting - Banking Services

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Dr.M. MONIKA**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**AORB301 : RURAL BANKING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Rural Banking: Concept of Rural Banking - Need for Rural Banking
2	1	Priority Sector Lending: Terms and Conditions
3	2	Antipoverty Programmes: Antipoverty - cum - Development Programmes: Integrated Rural Development Programme (IRDP)
4	2	Scheme for Training of Rural Youth in Self Employment (TRYSEM), Development of Women and Children in Rural Areas (DWCRA)
5	2	Scheme for providing Self-Employment to Educate Unemployed Youth (SEEUY), Self-Employment Programme for Urban Poor (SEPUP)
6	2	Differential Rate of Interest Scheme (DRI), Bio-gas programme and 20 point Economic Programme - their basic featuaridrole of banks
7	3	Sources of Finance in Rural Areas: Institutional Sources of Finance in Rural Areas: Co-operative Banks - their structure, policy, functions, clientele, progress and problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Commercial Banks - their structure, policy, functions, clientele, progress and problems
9	3	Regional Rural Banks - their structure, policy, functions, clientele, progress and problems
10	4	Credit Planning: Credit Planning at the Gross Root Level: Lead Bank Scheme - their basic features
11	4	District Credit Plans and Service Area Approch - their basic features.
12	5	Institutions for Rural Development: Institutions supporting Rural Development: Reserve Bank of India (RBI)
13	5	National Bank for Agriculture and Rural Development (NABARD)
14	5	District Industrial Centre (DIC), Kadhi and Village Industries Commission (KVIC)
15	5	Voluntary Organisations - their role

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LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18BM502 : RISK MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning and definition of Risk and risk management principles and elements Risk process
2	1	Basel Committee, BCBS AND BIS Basel 1,11 and 111 norms key risks Concept of ALM
3	2	1 - ALCO ,Risk organisation 11 - Credit risk -definition, Framework for risk management RBI guidelines for risk management, Risk rating and risk pricing
4	2	Methods for estimating capital requirements -Standardised approach and Advanced approach, Credit rating-objectives-functions
5	2	Credit bureaus, CRSIL Stress testing and sensitivity analysis ICAAP -Internal Capital Adequacy Assessment Process
6	3	11-Structured products 111- Operational risk -Definition -RBI guidelines for operational risk
7	3	Types of operational risk- Causes for Operational risk -Sound Principles of Operational Risk Management (SPOR)-Identification ,Measurement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Control of operational risk,Organisational set up and policy requirements and Key responsibility of ORM Capital allocation for operational risk, Methodology and qualifying criteria for bank for the adoption of the methods -
9	3	Computation of capital charge for operational risk
10	4	Market Risk, Interest rate risk, Liquidity risk ,Currency risk and Commodity Risk
11	4	Statistical Measures- Other methods Gap analysis,Duration analysis
12	4	Simulation, Synthetic method ,VaR
13	5	Risk Measurement &Control -Risk exposure analysis,Risk Mitigation policy Risk Adjusted Return on capital
14	5	Prudential norms, Income Recognition and Asset Classification(IRAC), Capital adequacy norms
15	5	Hedging,Forwards, Futures Options,System Audit,Risk Organisation Policy

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LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18EBM606 : SERVICES MARKETING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning and nature of services, Types and significance of services marketing
2	1	Components of service marketing, service designing, factors affecting services designing
3	1	Blue print, Market segmentation, process of market segmentation
4	2	Marketing of services with special reference to Financial services: - Concept - Features of Banking,
5	2	Features of Insurance , Lease and Mutual Fund
6	2	Features of Factoring, Portfolio and financial intermediary services
7	3	Marketing of hospitality :- Perspectives of Tourism,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Perspectives of Hotel and travel services -Types of users- Airlines -Railways
9	3	Services of Passenger and Goods Transport - Leisure services.
10	4	Marketing of Non-Profit Organisations - Services offered by charities -
11	4	Educational service - miscellaneous services -
12	4	Power and Telecommunication
13	5	Marketing mix in services marketing –The seven P's –Product decisions
14	5	pricing strategies-Promotion of Services and Distribution Methods for Services
15	5	Internet as a service channel

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LESSON PLAN

Name of the Staff	**PUNNIYA SEELAN R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18EBM506 : PRACTICAL AUDITING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing - Meaning – Definition – Objectives – Scope – Advantages, Limitations - Distinction between Accounting and auditing – Difference between Auditing and Investigation,
2	1	Materiality in auditing, evidence – audit techniques, classification as to methods of approach to work –
3	1	Types and conduct of audit- continuous audit, final audit-special audit-cost audit – management audit-unit test
4	2	Audit planning – audit engagement letter - factors considered before commencing a new audit,
5	2	Audit programme, audit files, audit note book, working papers – vouching of cash and trading transaction
6	2	Internal check – internal control – internal audit- unit test
7	3	Verification and valuation of assets and liabilities – meaning – objectives of verification and vouching –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Classifications of asset – importance of valuation – difference between verifications and valuation of current assets – verification and valuation of fixed assets-CIA test
9	3	Classifications of liabilities- Verification and valuation of current liabilities- Verification and valuation of fixed liabilities- unit test
10	4	Audit of limited companies – necessity of company Audit - Qualification and disqualifications of auditors – appointment of auditors, ceiling on numbers of audits, remuneration of auditors, removal of auditors-
11	4	Powers, duties and liabilities of a company auditor- Special audit U/S 233A – powers of central government
12	4	Powers and duties of special auditors - contents of special audit report – unit test
13	5	Investigation – scope – objectives, procedures followed in investigation – investigation under the company act – powers of inspectors
14	5	Electronic Data Processing systems – Characteristics – comparison of manual and Electronic Data Processing systems – features of auditing through computer system
15	5	Computer based accounting – features of CAAT – uses of CAAT- unit test plus CIA II

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PUNNIYA SEELAN R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18BM602 : MANAGEMENT ACCOUNTING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management Accounting: Meaning –Definition –Objectives– Nature and Scope–Role of Management Accountant - Difference between Financial Accounting, Cost Accounting and Management Accounting
2	1	Analysis of Financial Statements: Types of Analysis –Vertical and Horizontal–Comparative Statement analysis of pl account and balance sheet
3	1	Common Size Statement analysis and Trend Analysis-solving problems
4	2	Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations –Meaning and types of Ratio Analysis
5	2	Calculation of Liquidity ratios, Profitability ratios
6	2	Calculation of Solvency ratios. (exclude using ratio to prepare Balance sheet
7	3	Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement -Limitations of Cash Flow Statement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Procedure for preparation of Cash Flow Statement (as per Accounting Standard – 3 /IAS – 7/ IND AS - 7) (Indirect Method Only- basic level problems .
9	3	Procedure for preparation of Cash Flow Statement (as per Accounting Standard – 3 /IAS – 7/ IND AS - 7) (Indirect Method Only).- advance level problems
10	4	Meaning and definition of budget-essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control
11	4	classification of budgets-on the basis of time-on the factors of production -on the basis of flexibility–on the basis of functions-zero based budgeting -advantages and limitations of budgetary control
12	4	preparation of production, sales, materials, material purchase, production cost, cash and flexible budgets
13	5	Capital Budgeting: Concepts – Nature – Advantages and Limitations
14	5	Ranking Investment Proposals – Pay Back Period, ARR-solving problems
15	5	NPV, -IRR and Present Value Index.- solving problems

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LESSON PLAN

Name of the Staff	**Rev. Fr. Dr. A. Alex**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18BM503 : BANK MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Banking Banking Structure In India Banking System
2	1	Banking Functions Functions of Commercial banks Banking Services Foreign Commercial banks and Private Commercial Banks Capital Adequacy
3	1	Unit test, Discussion on the answer sheets, Assignment 1, Group Discussion, Roleplay and Seminar on the First unit
4	2	Principles of lending, Financial Adequacy of the borrower, Project appraisal, Structural and infrastructural analysis
5	2	Legal formalities, follow up loans and asset management companies
6	2	Unit test, Discussion on the answer sheets, Assignment 2, Group Discussion, Roleplay and Seminar on the Second unit
7	3	Management of NPAs, Early Warning Signals, Remedies of NPAs, Recent Measures

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Loan recovery tribunals, Provisions of Revenue Recovery Act and I CIA Test
9	3	CIA Test and Discussion on the performance of the students in the test
10	4	Investment Management, Priorities in the allocation of bank funds, investment in Government securities
11	4	Maturity and Yield, Quality and Diversifications, Profitability Management and Profit planning.
12	4	Unit test, Discussion on the answer sheets, Assignment 3, Group Discussion, Roleplay and Seminar on the Fourth unit
13	5	Traditional banking Vs E-Banking, Facets of E-banking, Internet Procurement, E-Banking transactions, Electronic Delivery Channels, Truncated Cheque, Complete Centralised Solution
14	5	Features of Complete Centralised Solution, Advantages of E-Banking, Constraints in E-Banking and Security Measures and II CIA test
15	5	Unit test, Discussion on the answer sheets, Assignment 4, Group Discussion, Roleplay and Seminar on the Fifth unit

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LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18BM501 : INCOME TAX LAW & PRACTICE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Concepts and definitions of Previous Year, Assessment Year, Person, Assessee, Income, Gross Total Income
2	1	Residential status – Exempted Income – Agricultural Income.
3	1	Computation of Salary Income – Taxable Allowances, Perquisites and Profit in lieu of salary
4	2	Computation of Income from House Property
5	2	Computation of Income from House Property
6	2	Annual value – Deductions.
7	3	Profits & Gains from business or Profession

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expressly allowed and disallowed deductions
9	3	Depreciation – Block of assets.
10	4	Income from Capital gains – deductions and exemptions
11	4	Income from other sources
12	4	Grossing up of interest-- Deemed Income
13	5	Set off and carry forward of losses
14	5	Deductions u/s 80 C to 80 U
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18BM601 : CUSTOMER RELATIONSHIP MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Customer Relationship Management (CRM): Meaning – Definitions– Objectives
2	1	Benefits - Advantages and Disadvantages - Types - CRM Cycle - Necessity for adoption in CRM
3	1	Implementation of CRM - Reasons and failure of CRM.
4	2	Electronic Customer Relationship Management (E-CRM): Meaning -Definition -Features -
5	2	Advantages and Disadvantages –Difference between CRM and E-CRM
6	2	Difference between CRM and E-CRM – Components and Challenges of E-CRM.
7	3	Lead Management: Meaning - Process – Needs – Benefits. Contact Management: Meaning – Needs – Benefits.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Enterprise Marketing Automation: Meaning – Functions – Components.
9	3	Campaign management: Meaning – Significance – Benefits. Call Center Operations: Meaning – Components – Types – Benefits.
10	4	Database Management: Meaning - Definitions– Importance. Customer database: Meaning – Importance – Implementation of a Customer Database.
11	4	Database Construction: Meaning – Definition – Phases. Data Structure: Meaning – Definition – Advantages and disadvantages.
12	4	Data Mining: Meaning – Features – Elements – Tools and Techniques. Data Warehousing: Meaning – Characteristics – Domains – Functions.
13	5	Customer Satisfaction: Meaning – Definition – Significance – Components.
14	5	Customer Delight: Meaning – Purpose – Principles.
15	5	Revision & Class Test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**OM PRAKASH M**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18BM603 : HUMAN RESOURCE MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human Resources Management – definition, meaning, function, importance of HRM.
2	1	Qualities and roles of HR manager.
3	1	Problems and challenges of a HR manager.
4	2	Human Resource Planning – definition – importance.
5	2	HRP process - Job analysis – nature, process.
7	3	Recruitment and selection – meaning and definition, objectives.
8	3	Sources of recruitment, process, methods.

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Recruitment practice in India- interviews.
10	4	Training and Methods : Meaning – nature, principles, assessing the needs of training,
11	4	Training and development as source of competitive advantage.
12	4	Methods of training, evaluation of effectiveness.
13	5	Performance And Potential Appraisal - meaning, purpose-process.
14	5	Performance And Potential Appraisal methods,
15	5	Performance And Potential Appraisal Problem - managing grievances and discipline.
6	2	Concept of job design, methods- techniques– Job description-job specification

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18EBM504 : INTERNATIONAL BANKING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	International banking meaning, function, need, Domestic banking and international banking
2	1	Financial Transaction and it process Financials transaction function and scope
3	1	Foreign currency transaction, importance of country economic business, importer and expoters
4	2	Forex market, rate, currency value, exchange rate, Forex exchange, function and importance Exchange rate
5	2	Floating Exchange rate and fixed Exchange rate determination of Exchange rate Spot and Forward Exchange rate types of foreign exchange risks
6	3	International Financial Institutions and Functions Importance and its Significance, Asian Development Bank. role and functions IMF Role and regulations
7	3	International Financial Corporations, and its of forex market and bank activity Role of IFC

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	List of Corporations and its Functions, International Development Revision
9	4	Source for Foreign Exchange, Exports Earnings, Invisible Role of NRI,
10	4	Remittances FDI and FII andits Significance. External Commercial Borrowings Needs, Objectives ,
11	4	Growth of Business, Global Depreciation Receipts of Shares Borrowing
12	5	Foreign Exchange Management Meaning, Composition of Foreign Exchange Reserves And Its Importance
13	5	Forex Reserves and need of International Banking Foreign Currencies – Gold and SDR Impact of Forex market
14	5	Current Account Convertibility and its Importance of Business
15	5	Capital Account Convertibility Of Precautions importance and its need

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18EBM604 : RETAIL BANKING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Retailing Concepts Meaning History and definition, objectives Advantages and disadvantages of retail banking Recent trends in RB
2	1	role within the bank operations, SBU approach, departmental approach, and integrated approach
3	1	Applicability of retailing concepts, In banking expansion and recent distinction between Retail and Corporate/Wholesale Banking.
4	2	RETAIL PRODUCTS Meaning and concepts Retail Products Overview Objectives of retail products
5	2	Customer requirements, Needs and wants Customer database, Products development process,
6	2	Liabilities and Assets Products Loans or credits and SACA, deposits, Fixed and recovering Description of Liability products, Description of Asset Products.
7	3	Credit / Debit Cards Meaning and definition Objectives Needs and importance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Credit Vs Debit Cards, Eligibility, Purpose, Amounts, Margin,
9	3	Security and importance, Process of using the cards, Billing Cycle, and its concepts Credit Points and purpose
10	4	Marketing / Selling of retail products, Mode of selleing, importance and aims
11	4	Tie –up with Institutions for Delivery Channels Branch, Extension counters, ATM, POS,
12	4	Internet Banking, M- Banking Meaning and its features Recent trends
13	5	Customer Relationship Management meaning and definition Advantages and disadvantages Objectives of CRM
14	5	Role of Customer relationship and impact of Customer relationship
15	5	Stages in customer relationship management process. Account opening, basic loan origination data.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling Quiz game
3	2	Seminar
4	2	Debate Group Discussion
5	3	Book Review
6	3	Film Review
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Speech on Current Events
9	4	Welcome Address
10	4	Vote of Thanks Report Writing
11	5	Narrating Dreams
12	5	Narrating Ambition
13	5	Narrating Ambition
14	0	II CIA
15	0	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Economics
2	2	Law of Demand
3	2	Exeptions of Law of Demand
4	2	Why does the Demand curve slope down ward.
5	3	Properties of Indifference curve-
6	3	Properties of Indifference curve-
7	3	Budget line or Price line.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Production Function –Meaning-Definition
9	4	The Law of Returns to Scale
10	4	Types of market
11	4	Cobb-Douglas Production Function
12	5	Meaning of Cost –Cost Concepts.
13	5	Short Run Cost curves & Long run cost curves
14	5	Relationship between Average cost & Marginal cost
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**19AEBM22 : MONETARY ECONOMICS**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Money -Definition- Money as Store of Value -Money as Medium of Exchange.
2	3	Classical view of Money - view of Cambridge economists.
3	3	Keynesian view of Demand for Money -three motives-Liquidity Trap.
4	3	The supply of Money-Money supply & Economic activity.
5	3	Creation of Money- Bank as a Creator of Money.
6	3	Central Bank as creator of Money-The Government as Creator of Money .
7	3	Neutrality of Money - Velocity of circulation of Money.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Velocity of circulation of Money.
9	3	REVISION
10	4	Meaning & Definition of Inflation.
11	4	Characteristics Of Inflation-Types of Inflation.
13	4	Demand Shift Inflation-Inflationary Gap .
14	4	Effects of Inflation-Anti-inflationary Measures.
15	4	REVISION
12	4	Types of Inflation-Causes of Inflation-Demand Pull Inflation-Cost Push Inflation .

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**BM102T : FINANCIAL ACCOUNTING - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning and definition of Accounting, steps and objectives of Accounting,Difference between Book keeping and accounting, Advantages and limitations of Accounting. Accounting rules, Accounting concepts and conventions
2	1	Basis of Accounting,, Problems on Journal and Ledger,
3	1	Problems on purchases book sales book , Purchases returns and sales returns book, Cash book T
4	1	Problems on Trial balance and Trading and profit and loss account Problems on final accounts
5	2	Meaning of single entry, Difference between single entry and double entry problems on single entry system -net worth method
6	2	Problems on conversion method Problems on trading and profit and loss account
7	2	2 unit problems on single entry 3 unit - Income & Expenditure account - Meaning, Differences between Income and Expenditure account and receipts & payments account

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Problems on Income and Expenditure account and receipts & payments account
9	3	Problems on Income and Expenditure account
10	3	Problems on Income & Expenditure and Balance sheet.
11	4	Meaning of Consignment, Difference between Consignment and sales, Preparation of Account sales, Valuation of unsold stock, Normal loss and abnormal loss
12	4	Journal entries and accounting treatment for consignment transaction Stock valuation Problems on Consignment A/C
13	4	Problems on Consignment A/C Unit 5 - Meaning and definition of Joint venture, Difference between partnership and joint venture
14	5	Journal entries for joint venture transactions when separate book for joint venture is maintained
15	5	Problems on Joint venture Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**BM203Q : FINANCIAL ACCOUNTING - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning of Average Due Date , Uses of ADD,Basic problems
2	1	Calculation of interest ,Problems on Average Due Date
3	1	Account Current, Methods of calculating interest, Problems on Account current
4	2	Meaning and types of branches, Dependent branch, Difference between Branch and Department
5	2	Problems on preparation of trading account of branches under debtor system,Stock and debtors system
6	2	Wholesale branch account system and final account system
8	3	Problems on inter-departmental transfer at cost price and loss account

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	problems on preparation of trading and profit and loss Account of the department
7	3	Departmental accounting meaning, need, advantages, distinction between Departments and branches
10	4	Accounting Treatments - Admission of partner – Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
11	4	Accounting Treatments - Retirement of Partner – Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
12	4	Accounting Treatments - Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
13	5	Dissolution of firm – Modes of dissolution – insolvency of a partner - Garner Vs Murray rule - Problems
14	5	Problems on Insolvency of all partner
15	5	Piecemeal distribution – proportionate capital method-Maximum loss Method (simple problems)

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LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Greeting Seeking,Giving, Refusing Permission Exercise
2	2	Verbal Communication Conversation
3	3	Telephone Conversation
4	4	Role play
5	5	Simple sentences
6	6	Framing questions
7	7	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Speaking skill
9	9	Framing long sentences
10	10	Translating simple sentences from Tamil to English
11	11	Reading Skill
12	12	Reading Skill
13	13	Framing simple questions
14	14	Writing skill
15	15	Grammar test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**19BM101 : PRINCIPLES OF MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition & Meaning of management-Functions of Management -levels of management .
2	1	roles of manager, Management as a Science or Art - Management as a Profession - Fourteen Principles of Management
3	1	Contribution to management by F.W.Taylor, Henry Fayol, and Peter F. Drucker - Their merits and criticisms , contents
4	2	Planning -Meaning and Definition - importance - Process of planning - types of planning - Merits and Drawbacks.
5	2	Planning methods (Objectives- Policies- Procedures - Strategies &Programmes) - Contents - merits and Drawbacks.
6	2	Obstacles to effective planning. Decision making - Steps – Types - Characteristics - Advantages and Drawbacks.
7	3	Organization -Meaning and Definition - Characteristics - Importance - Principles of Organizing - Advantages and criticisms.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Delegation & Decentralization –Meaning and definition - Characteristics - Types - Merits and Criticisms. Departmentation - Characteristics - Types.
9	3	Span of Management - Meaning - Characteristics - Organizational structure - line & staff and functional.
10	4	Directing - Meaning and Definition - Features - Merits and Drawbacks - Effective methods .
11	4	Motivation - Theories of motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques.
12	4	Leadership – Characterisitics - Functions or Role of a Leader- Leadership styles – Theories of Leadership.
13	5	Co-ordination – Characteristics – Elements – Types – Principles – Techniques – Co-ordination Vs Co- operation-
14	5	Benefits – Problems. Control- Characteristics- Types – Steps- Advantages- Limitations. Techniques of Control (Traditional techniques.
15	5	Modern techniques - Budgetary Control, Break- Even Point (BEP)Analysis- Return On Investment Control- Responsibility Accounting – Network Techniques – PERT and CPM).

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LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**19BM204 : BUSINESS CORRESPONDANCE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Communication - Introduction - Characteristics - Purpose - Importance - Process - Media or Methods of Communication.
2	1	Types of channels of communication - Forma and Informa - Principles of Effective Communication - Barriers to communication - Measures to improve communication.
3	1	Business etters - Types of etters - Importance - Essentials - Structure or parts of the business etters - Types of business etter layout.
10	4	Report - Meaning - Features of a report - Features of a good report - preparing a report - Style of reports.
11	4	Types of reports - Agenda - writing the agenda - Minutes of meeting - Memorandum - Elements - Characteristics - Types of memos.
12	4	Parts of memo - Office order - Features - Office note - Characteristics .
7	3	Correspondence with financia service institutions - Bank correspondence - Meaning - functions - Eements - Characteristics -Types - etters between banker and customer.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Insurance correspondence- Basic principes - ife insurance - Kinds of ife poicies - Procedure - Fire insurance - Kinds of fire poicies - Procedure - etters - Marine insurance - Kinds of marine poicies .
9	3	Correspondence with sharehoders and directors - Duries of a company secretary - Cassification of secretaria correspondence - Precautions - Agency correspondence - Kinds of Agents - Drafting an agency etter - Stages of agency correspondence.
4	2	Kinds of business etter - Interview - Objectives - Types - Guideines for effective interviewing - Appointment - Acknowedgement.
5	2	Promotion - Basis for promotion - Advantages and disadvantages - Benefits - Enquiries - Importance aspects of an enquiry etter.
6	2	Repies - Orders - saes etters - Purpose - Adavantages - Structure - Circuar - Characteristics - Types - Compaints - Importance - Reasons of compaint etters - Hints on writing etters of compaints.
13	5	Modern forms of communication - E-Mai - Features - Advantages - imitations - Video - Conferencing - Components required for video conferencing - Advantages.
14	5	Internet - Meaning - Functions - Connecting to the internet - Usefuness - Websites and their use in business - Meaning .
15	5	Types of websites - Reasons for websites and their use in business - Advantages and disadvantages.

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1. PURANANOORU - 192,183 1.2. AGANANOORU - 34,104
2	1	1.3. KURUNTHOGAI - 40,3 1.4. NATRINAI - 110,139 1.5. PARIPAADAL - 4,11
3	4	ILLAIYA VARALAARU 4.1. PATHINEN KEEZH KANAKGU NOOLGAL - ARANOOLGAL
4	4	4.1. PATHINEN KEEZH KANAKGU NOOLGAL - AGANOOLGAL, PURANOOLGAL
5	4	4.2. SANGKALANGAL - MUCHANGAL,, ETTUTHOGAI
6	4	4.2. SANGKALANGAL - PATHTHUPPATTU
7	3	THIRUKGURAL 3.1. VINAISEYAL VAGAI 3.2. PORULSEYAL VAGAI 3.3. THERINTHU SEYAL VAGAI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN 5.1. VINNAPPANGAL 5.2. KADITHANGAL 5.3. SURUKI VARAITHAL
9	5	5.4. SETHI SEGARIPPU 5.5. NERKAANAL
10	4	4..3. AATRUPADAIGAL - AATRUPADAIGAL
11	4	4..3. AATRUPADAIGAL - AGANOOLGAL,PURANOOLGAL
12	2	PATHTHUPPATTU 2.1. PATTINAPPALAI - 120,192
13	2	2.2. SIRUPANATTRUPADAI
15	2	2.4. MULLAIPPATTU
14	2	2.3. MATHURAIKANCHI - MARUTHANILA VARUNANAI

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**NIRMAL RAJ S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Demand –Meaning-Definition-Factors Influencing Demand
2	2	Law of Demand – Exceptions to the Law of Demand
3	2	Elasticity of Demand –Types of Elasticity of Demand
4	2	Demand Forecasting-Meaning-
5	2	Definition-Objectives.
6	3	Indifference Curve Analysis
7	3	Marginal Rate of Substitution

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties of Indifference Curves
9	3	Indifference Map-Budget line or Price line
10	3	Consumer’s Equilibrium-Consumer Surplus .
11	4	Introduction-Factors of Production-Production Function
12	4	Importance of Production Function
13	4	The Cobb-Douglas Production Function
14	4	The Law of Variable Proportions
15	4	The Law of Returns to Scale

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GNANA SOUNDARI K**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Character is destiny by Dr. Radhakrishnan What is communication?
2	1	All the world is a stage by William Shakespeare Greeting people and Making request Seeking and giving permission
3	1	Never Never Nest Agreeing and disagreeing
4	2	Persuading and debating Sounds and symbols in English Word and sentence stress
5	2	Effective use of innovation Telephone manners in business situation Handing customer orders and enquiries
6	5	Note making Report writing
7	0	Revisions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA EXAM
9	2	The gift of the Magi Effective listening
10	2	Malala's biography Understanding the audience
11	2	The monkey's paw Perceptual clarity Channel Awareness
12	4	Role of non verbal communication Pragmatic Handling delivery and after sales problems
13	4	Teleconference Tele- Interview Advertisement Boucher
14	0	II CIA EXAM
15	0	Revisions

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Women - S. Radhakrishnan
2	1	The solitary reaper-William Wordsworth THE PURPLE DRESS -O HENRY
3	2	Effective communication Face to face communication
4	2	Basic skills for talking to people Receiving visitors
5	2	GROUP DISCUSSION preparing for interview
6	2	talking interview promotion interview
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GIVE US A ROLE MODEL -DR.A.P,J KALAM SOWALI-MAHASWETA DVI
9	3	J.R..D.'S WORDS OF INSPIRATION TO SUDTHA MURTHY
10	4	BUSINESS CONVERSATION BUSINESS PRESENTATION
11	4	SOFT SKILLS TEAM MAINTENANCE AND ROLES
12	5	STANDARD BUSINESS LETTERS RESUME WRITING
13	5	ASSIGNMENT SEMINAR GROUP DISCUSSION
14	0	II CIA EXAM
15	0	REVISION

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**BM305T : INDIAN FINANCIAL SYSTEM**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Financial system - Meaning and importance Difference between Financial yield and financial rate components of financial system Components of financial institutions
2	1	Financial market- capital market, Money market,Foreign exchange market etc. Components of financial instruments- Bills of Exchange, cheque, bonds, Government securities etc Financial services -Factoring and leasing
3	1	Hire purchasing, underwriting,, Book building, credit rating, merchant banking, ALM Indian money market
4	1	Indian capital market- New issue market -Secondary market 2 unit -Management of RBI
5	2	Functions of RBI, Monetary policy of RBI
6	2	Quantitative control and qualitative control measures of RBI 3 unit - Commercial banks Meaning and Management
7	3	Functions of commercial banks - Primary and secondary functions, Modern functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Recent trends in Indian commercial banks
9	4	Development banks- Meaning, objectives and difference between Commercial banking and Development Banking
10	4	Functions of various development Banks - IFCI, ICICI , IDBI
11	4	NABARD, UTI,
12	4	HDFC Management-Functions
13	5	State level Development Banks -SFC
14	5	SIDCO Functions
15	5	SIDBI - Functions

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**PUNNIYA SEELAN R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**BM306S : CORPORATE ACCOUNTING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Issue of Shares-Introduction-Meaning-Definition-Features-Kinds of shares-Under Subscription and Over Subscription
2	1	Issue of shares at par-At Premium-At -Discount-Calls-in-arrears-Calls-in-advance-problems and solution
3	1	Forfeiture of Shares -Reissue of Forfeited shares- Balance Sheet (Revised Schedule VI) -problems and solution-unit test
4	2	Acquisition of Business-Meaning- -Purchase consideration- Net asset method-Net payment method- Journal entries in new set of books are opened - problems and solution
5	2	Debtors and Creditors taken over on behalf of vendors – problems and solution
6	2	Profits prior to incorporation -Meaning- Methods of Ascertaining profit or loss Prior to Incorporation-Basis of Apportionment of Expenses - problems and solution- unit test
7	3	Introduction- Legal requirements- schedules and its preparation-procedure and provision relating to preparation of schedules

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Statement of profit and loss- (Part II of Revised Schedule VI)- problems and solution-CIA-I
9	3	Balance Sheet-(Part I of Revised Schedule VI)-Managerial Remuneration - problems and solution- unit test
10	4	Liquidation of Companies meaning of liquidation or winding up – Modes of winding up –Winding up by the Court, Compulsory, Voluntary, Members, Creditors
11	4	Order of Payment –Secured Creditors – Preferential Creditors – Liquidator's Final Statement of accounts. - Problems and solution
12	4	Liquidator's Final Statement of accounts when shares have different paid up value- - problems and solution - unit test
13	5	Bank-Meaning-Legal requirements- schedules and its preparation- procedure and provision relating to preparation of schedules
14	5	Preparation of profit and loss accounts (Form 'B' of Schedule III) -- problems and solution
15	5	Balance Sheet (Form 'A' of Schedule III)-. - Problems and solution- unit test plus CIA-II

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PUNNIYA SEELAN R**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**BM409S : COST ACCOUNTING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cost accounting – Meaning – definition – objectives – advantages – limitations –methods of costing – types of costing – differences between cost accounting, management accounting and financial accounting
2	1	Cost – Element of cost– meaning – definition– cost sheet- Meaning – Preparation of cost sheet
3	1	tenders and quotations-solving problems
4	2	Material control - Meaning objectives – need – advantages .l - Inventory control and its techniques
5	2	Stock levels and EOQ- methods of pricing material issues – FIFO – LIFO – HIFO
6	2	pricing of material issues- Simple average method – Weighted average method – Standard price method – Base stock method
7	3	Overheads – meaning – definitions – importance – classifications

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	primary distribution – secondary distribution of overheads - solving problems
9	3	Machine hour rate computation- solving problems
11	4	procedure of contract costing- contract account- solving problems
12	4	contract account- solving problems to determine profit on incomplete contracts,
14	5	Break even analysis –PV ratio - margin of safety – solving problems
15	5	Application of break even analysis- solving problems
10	4	Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing,
13	5	Marginal costing – definition – features – advantages – limitations

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**ASBM301Q : BUSINESS STATISTICS**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data
2	1	Classification and Tabulation of Statistical data. Frequency distribution: Simple and Cumulative.
3	1	Measures of Central value: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean.
4	2	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
5	2	Standard Deviation-Combined standard deviation and Coefficient of Variation
6	2	Measures of Skewness: Karl Pearson's and Bowley's methods.
7	3	Correlation: Karl Pearson's coefficient of correlation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Spearman's rank correlation coefficient and Concurrent deviation method
9	3	Regression analysis: Simple regression equations.
10	4	Index numbers – Uses of index Numbers – Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers – Simple Aggregative Method 1
11	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices
12	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
13	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly)
14	5	Least Square Method (Fitting of straight line). Measurement of Seasonal Variation: Method of Simple Averages
15	5	Ratio-to-trend Method – Link Relative Method.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**BM408Q : BANKING LAW AND PRACTICES**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bank –Meaning, Definition, Classification, types of banks and their functions and Services- Banking system in India.
2	1	Commercial Banks -Primary Functions - Functions of Modern Commercial Banks - Modern functions of Commercial Banks - Universal Banking - Central Bank - Features.
3	1	Functions of Central Bank - Credit control measures - EXIM Bank - Deposit Insurance and Credit Guarantee Corporation.
4	2	Cheque - Essentials of a Cheque - Crossing of a Cheque - Specimen of a Cheque - General Crossing - Special Crossing - Payment of Cheque - Collection of Cheque-
5	2	Endorsement - Transfer of negotiable endorsements - Legal effects - Rules pertaining to endorsement - Different types of endorsement.
6	2	Debit Card - Credit Card - Green Card - Smart Card - Functions, Advantages and Disadvantages.
7	3	Banker - Customer - General and Special relationship between Banker and Customer - Right of lien

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Special features of Banker's Lien - Opening of Current - Saving - Recurring - Fixed deposit Accounts -
9	3	Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions.
10	4	National Bank for Agricultural and Rural Development (NABARD) - Objectives - Features - Functions .
11	4	Co-operative Banks - Regional Rural Banks (RRBs) - Objectives - Features - Functions .
12	4	Contribution to social and rural development - Micro Credit(SHGs) - Objectives - Features - Functions .
13	5	E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs - Cash Machine - Electronic Money
14	5	Electronic Fund Transfer System (EFT) - Indian Financial Network - Customer Grievances Redressal and Ombudsman
15	5	Authority for Banking Ombudsman - Procedure for Grievance Redressalin Banking Ombudsman -core banking system – Electronic Clearing Services (ECS).

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LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**BM307T : PRINCIPLES OF MARKETING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Market- Meaning- Definition- Classification of markets. Marketing – Meaning – Definition- Evolution – Approaches
2	1	Modern marketing concepts - Marketing Mix with Extended 7Ps and 10 Ps-- Meaning-Concepts - Role of Marketing in Economic Development
3	1	Market Segmentation-Definition –Requirements –Bases for Market Segmentation - Benefits and Limitations , Criteria for Market segmentation.
4	2	Meaning- Features-Classification of products- Product Mix-Product Innovation- Benefits .
5	2	New Product Development- Methods adopted to introduce a new product - Levels adopted in new product development - Product Life Cycle- Stages .
6	2	Branding- Meaning- Advantages and Limitations - Packaging-Meaning- Kinds- Labeling- Meaning-Advantages and Limitation.
7	3	Price – Meaning - Pricing- Importance - Methods of pricing

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Objectives- Factors affecting pricing decisions - Pricing Policies- Methods used in pricing policies.
9	3	Procedure for price determination- Kinds of Pricing
10	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen --
11	4	Agents and Merchant Middlemen-Wholesalers –Types -- Services rendered by wholesalers - Retailers- Types .
12	4	Requisites – Services rendered by retailers- Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
13	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
14	5	Advertising- Meaning and definition– Medias- Advantages- Limitations –Advertising copy – Definition.
15	5	Elements of an Advertisement copy – Introduction to Cinema Advertising, SocialMedia Advertising,- Web Advertising, and Mobile Advertising.

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LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**3**
Subject	**AORB301 : RURAL BANKING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Concepts of Rural Banking, Need for Rural Banking, Important Growth of Rural Banking
2	1	Priority Sector Lending to Various Economic Development Terms and Conditions Types of Loans
3	2	Antipoverty Cum Development Programmes, Scheme benefit, features, importance, need and scope Integrated Rural Development Programmes (IROP) Scheme for Training of Rural Youth in Self Employment, Scheme benefit, features, importance, need and scope
4	2	Development of Women and Children in Rural Area (DECRA), Scheme benefit, features, importance, need and scope Sub Schemes and its benefit, features, importance
5	2	Scheme For Providing Self Employment to Educational Unemployment Youth. Self-Employment Programme for Urban Scheme benefit, features, importance, need and scope
6	3	Differential Rate of Interest Scheme, Bio Gas and 20 Point E Commerce Programme its Basic Features
7	3	Institutional Source of Finance in Rural Bank Cooperative Bank Commercial Bank, Structure, Policies, and its Importance's

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Regional Rural Bank their Structure, Policies, and its Importance's to the country economic Rural Banking, Policy its Functions, Climate Progress and Problems
9	4	Credit Planning at the Gross Root Credit, Functions Lead Bank Scheme, benefit, features, importance
10	4	Types Of agriculture and micro finance Schemes and its Functions Structure, Policies, and its Importance's benefit, features,
11	4	District Credit Plan and Service Area Approach Their Basic Features Structure, Policies, and its Importance's benefit, features,
12	4	Institutional Supporting Rural Development, Reserve Bank of India, National Bank For Agriculture and Rural Development Bank (NABARD) Structure, Policies, and its Importance's benefit, features,
13	5	District Industrial Centre (DIC), benefit, features, Structure, Policies, and its Importance's
14	5	Khadi and Village Industries Commission (KVIC) benefit, features, Structure, Policies, and its Importance's
15	5	Voluntary Organisation their Role, Different Agency, Banks, Significance , Need benefit, features, Structure, Policies, and its Importance's

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LESSON PLAN

Name of the Staff	**Dr.M. MONIKA**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**BM410S : FINANCIAL MARKET AND SERVICES**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Financial Market in India: Meaning and Significance. Money Market: Indian money market's composition and structure
2	1	Acceptance House, Discount House and Call money Market
3	1	Recent Trends in Indian Money Market
4	2	Capital Market: Security Market - New issue market, Secondary Market
5	2	Functions and role in stock exchange: Listing Procedure and legal requirements
6	2	Public issue - Pricing and marketing
7	3	Stock Exchange - Functionaries on Stock Exchange

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Brokers - Sub Brokers - Market makers - jobbers - portfolio consultants
9	3	Institutional investors and NRI's - NSE and Over-the-Counter Exchange
10	4	SECURITY CONTRACT AND REGULATION ACT: Security Contract and Regulation Act - Main Provisions
11	4	Investors Protection: Grievance Concerning Stock Exchange dealings and their removal grievance exchanges
12	4	SEBI: Company Law board; press; Remedy through courts
13	5	FINANCIAL SERVICES: Financial Services: Merchant banking
14	5	Functions and Roles; SEBI Guidelines
15	5	Credit Ratings - Concepts, Functions and Types

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LESSON PLAN

Name of the Staff	**POOMAGAL**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**4**
Subject	**ABM401 : BANKING TECHNOLOGY**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Branch operation and core banking, introduction and evolution of bank management, technological impact in banking operations
2	1	Total branch computerisation, concept and opportunities
3	1	Centralised banking, concept, opportunities, challenges and implementation
4	2	Delivery channels, overview of delivery channels, ATM
5	2	Phone banking, call centers,internet banking
6	2	Payment gateways, card technology, MICR electronic clearing
7	3	Back office operations, bank back office management, inter branch reconciliation,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Treasury management,forex operations, risk management, data centre management
9	3	Network management, knowledge management, CRM
10	4	Interbank payment system, interface with payment system network
11	4	Structured financial messaging system, electronic fund transfer, RTGSS
12	4	Negotiated dealing system and securities settlement systems, E-money and E-cheque
13	5	Contemporary issues in banking
14	5	Analysis of Rangarajan committee reports
15	5	E banking, budgeting and banking software

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18BM502 : RISK MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning and definition of Risk and risk management principles and elements Risk process
2	1	Basel Committee, BCBS AND BIS Basel 1,11 and 111 norms key risks Concept of ALM
3	2	1 - ALCO ,Risk organisation 11 - Credit risk -definition, Framework for risk management RBI guidelines for risk management, Risk rating and risk pricing
4	2	Methods for estimating capital requirements -Standardised approach and Advanced approach, Credit rating-objectives-functions
5	2	Credit bureaus, CRSIL Stress testing and sensitivity analysis ICAAP -Internal Capital Adequacy Assessment Process
6	3	11-Structured products 111- Operational risk -Definition -RBI guidelines for operational risk
7	3	Types of operational risk- Causes for Operational risk -Sound Principles of Operational Risk Management (SPOR)-Identification ,Measurement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Control of operational risk,Organisational set up and policy requirements and Key responsibility of ORM Capital allocation for operational risk, Methodology and qualifying criteria for bank for the adoption of the methods -
9	3	Computation of capital charge for operational risk
10	4	Market Risk, Interest rate risk, Liquidity risk ,Currency risk and Commodity Risk
11	4	Statistical Measures- Other methods Gap analysis,Duration analysis
12	4	Simulation, Synthetic method ,VaR
13	5	Risk Measurement &Control -Risk exposure analysis,Risk Mitigation policy Risk Adjusted Return on capital
14	5	Prudential norms, Income Recognition and Asset Classification(IRAC), Capital adequacy norms
15	5	Hedging,Forwards, Futures Options,System Audit,Risk Organisation Policy

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LESSON PLAN

Name of the Staff	**KRISHNAVENI R Dr.**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18EBM606 : SERVICES MARKETING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning and nature of services, Types and significance of services marketing
2	1	Components of service marketing, service designing, factors affecting services designing
3	1	Blue print, Market segmentation, process of market segmentation
4	2	Marketing of services with special reference to Financial services: - Concept - Features of Banking,
5	2	Features of Insurance , Lease and Mutual Fund
6	2	Features of Factoring, Portfolio and financial intermediary services
7	3	Marketing of hospitality :- Perspectives of Tourism,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Perspectives of Hotel and travel services -Types of users- Airlines -Railways
9	3	Services of Passenger and Goods Transport - Leisure services.
10	4	Marketing of Non-Profit Organisations - Services offered by charities -
11	4	Educational service - miscellaneous services -
12	4	Power and Telecommunication
13	5	Marketing mix in services marketing –The seven P's –Product decisions
14	5	pricing strategies-Promotion of Services and Distribution Methods for Services
15	5	Internet as a service channel

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LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18EBM506 : PRACTICAL AUDITING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing - Meaning – Definition – Objectives – Scope – Advantages, Limitations - Distiction between Accounting and auditing .
2	1	Difference between Auditing and Investigation, materiality in auditing, evidence – audit techniques,
3	1	classification as to methods of approach to work – types and conduct of audit.
4	2	Audit planning – audit engagement letter - Contents - factors considered before commencing a new audit,
5	2	audit programme, audit files, audit note book, working papers - Contents of audit programme and audit files - Types - Contents of working papers.
6	2	vouching of cash and trading transaction –Debit and credit side - internal check – internal control – internal audit.
7	3	Verification and valuation of assets and liabilities – meaning – objectives of verification and vouching .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	classifications of asset – importance of valuation - Methods carried out for valuation of assets and liabilities.
9	3	difference between verifications and valuation – verification and valuation of liabilities - contents present in it.
10	4	Audit of limited companies – necessity of company Audit - Qualification and disqualifications of auditors – appointment of auditors,
11	4	ceiling on numbers of audits, remuneration of auditors, removal of auditors- powers, duties and liabilities of a company auditor-
12	4	Special audit U/S 233A – powers of central government, powers and duties of special auditors - contents of special audit report.
13	5	Investigation – scope – objectives, procedures followed in investigation – investigation under the company act.
14	5	powers of inspectors .Electronic Data Processing systems – Characteristics – comparison of manual and Electronic Data Processing systems.
15	5	features of auditing through computer system – computer based accounting – features of CAAT – uses of CAAT.

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LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18BM602 : MANAGEMENT ACCOUNTING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management Accounting: Meaning –Definition –Objectives– Nature and Scope–Role of Management Accountant - Difference between Financial Accounting, Cost Accounting and Management Accounting.
2	1	Analysis of Financial Statements: Types of Analysis –Vertical and Horizontal
3	1	Calculation of Comparative Statement analysis –Common Size Statement analysis and Trend Analysis.
4	2	Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations –Meaning and types of Ratio Analysis
6	2	Calculation of Sundry items - Computation of items of Financial Statements from Ratios and Other Data.
7	3	Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement –Differences between Cash Flow Statement and Fund Flow Statement
8	3	Limitations of Cash Flow Statement –Procedure for preparation of Cash Flow Statement (as per Accounting Standard – 3 - Computation of cash flows from operating activities - When P&L account alone is given - Profit, Current asset & liabilities are giv...

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Computation of cash flows from operating activities - When sundry details are given - Simple cash flow statements - Comprehensive cash flow statements - Sole trader and partnership firms - With or without sale of fixed assets .
10	4	Meaning and definition of budget-essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control –classification of budgets-on the basis of time-on the factors of production -
11	4	classification of budgets - on the basis of flexibility–on the basis of functions-zero based budgeting -advantages and limitations of budgetary control-preparation of production, sales
12	4	preparation of materials, material purchase, production cost, cash and flexible budgets.
13	5	Capital Budgeting - Introduction - Definition - Importance of capital budgeting - Factors - types Methods of capital Budgeting.
14	5	Calculation of Pay back period method - Accounting rate of return method Pay back and ARR methods.
15	5	Discounted cash flow methods - NPV method - Profitability index method - IRR method - Discounted pay back period method
5	2	Calculation of Profitability - Turnover or activity ratios - Solvency or financial ratios.

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LESSON PLAN

Name of the Staff	**Rev. Fr. Dr. A. Alex**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18BM503 : BANK MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Banking Banking Structure In India Banking System
2	1	Banking Functions Functions of Commercial banks Banking Services Foreign Commercial banks and Private Commercial Banks Capital Adequacy
3	1	Unit test, Discussion on the answer sheets, Assignment 1, Group Discussion, Roleplay and Seminar on the First unit
4	2	Principles of lending, Financial Adequacy of the borrower, Project appraisal, Structural and infrastructural analysis
5	2	Legal formalities, follow up loans and asset management companies
6	2	Unit test, Discussion on the answer sheets, Assignment 2, Group Discussion, Roleplay and Seminar on the Second unit
7	3	Management of NPAs, Early Warning Signals, Remedies of NPAs, Recent Measures

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Loan recovery tribunals, Provisions of Revenue Recovery Act and I CIA Test
9	3	CIA Test and Discussion on the performance of the students in the test
10	4	Investment Management, Priorities in the allocation of bank funds, investment in Government securities
11	4	Maturity and Yield, Quality and Diversifications, Profitability Management and Profit planning.
12	4	Unit test, Discussion on the answer sheets, Assignment 3, Group Discussion, Roleplay and Seminar on the Fourth unit
13	5	Traditional banking Vs E-Banking, Facets of E-banking, Internet Procurement, E-Banking transactions, Electronic Delivery Channels, Truncated Cheque, Complete Centralised Solution
14	5	Features of Complete Centralised Solution, Advantages of E-Banking, Constraints in E-Banking and Security Measures and II CIA test
15	5	Unit test, Discussion on the answer sheets, Assignment 4, Group Discussion, Roleplay and Seminar on the Fifth unit

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LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18BM501 : INCOME TAX LAW & PRACTICE**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Concepts and definitions of Previous Year, Assessment Year, Person, Assessee, Income, Gross Total Income
2	1	Residential status – Exempted Income – Agricultural Income.
3	1	Computation of Salary Income – Taxable Allowances, Perquisites and Profit in lieu of salary
4	2	Computation of Income from House Property
5	2	Computation of Income from House Property
6	2	Annual value – Deductions.
7	3	Profits & Gains from business or Profession

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expressly allowed and disallowed deductions
9	3	Depreciation – Block of assets.
10	4	Income from Capital gains – deductions and exemptions
11	4	Income from other sources
12	4	Grossing up of interest-- Deemed Income
13	5	Set off and carry forward of losses
14	5	Deductions u/s 80 C to 80 U
15	5	Revision

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LESSON PLAN

Name of the Staff	**RAJKUMAR R Dr**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18BM601 : CUSTOMER RELATIONSHIP MANAGEMENT**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Customer Relationship Management (CRM): Meaning – Definitions– Objectives
2	1	Benefits - Advantages and Disadvantages - Types - CRM Cycle - Necessity for adoption in CRM
3	1	Implementation of CRM - Reasons and failure of CRM.
4	2	Electronic Customer Relationship Management (E-CRM): Meaning -Definition -Features -
5	2	Advantages and Disadvantages –Difference between CRM and E-CRM
6	2	Difference between CRM and E-CRM – Components and Challenges of E-CRM.
7	3	Lead Management: Meaning - Process – Needs – Benefits. Contact Management: Meaning – Needs – Benefits.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Enterprise Marketing Automation: Meaning – Functions – Components.
9	3	Campaign management: Meaning – Significance – Benefits. Call Center Operations: Meaning – Components – Types – Benefits.
10	4	Database Management: Meaning - Definitions– Importance. Customer database: Meaning – Importance – Implementation of a Customer Database.
11	4	Database Construction: Meaning – Definition – Phases. Data Structure: Meaning – Definition – Advantages and disadvantages.
12	4	Data Mining: Meaning – Features – Elements – Tools and Techniques. Data Warehousing: Meaning – Characteristics – Domains – Functions.
13	5	Customer Satisfaction: Meaning – Definition – Significance – Components.
14	5	Customer Delight: Meaning – Purpose – Principles.
15	5	Revision & Class Test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**5**
Subject	**18EBM504 : INTERNATIONAL BANKING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	International banking meaning, function, need, Domestic banking and international banking
2	1	Financial Transaction and it process Financials transaction function and scope
3	1	Foreign currency transaction, importance of country economic business, importer and expoters
4	2	Forex market, rate, currency value, exchange rate, Forex exchange, function and importance Exchange rate
5	2	Floating Exchange rate and fixed Exchange rate determination of Exchange rate Spot and Forward Exchange rate types of foreign exchange risks
6	3	International Financial Institutions and Functions Importance and its Significance, Asian Development Bank. role and functions IMF Role and regulations
7	3	International Financial Corporations, and its of forex market and bank activity Role of IFC

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	List of Corporations and its Functions, International Development Revision
9	4	Source for Foreign Exchange, Exports Earnings, Invisible Role of NRI,
10	4	Remittances FDI and FII andits Significance. External Commercial Borrowings Needs, Objectives ,
11	4	Growth of Business, Global Depreciation Receipts of Shares Borrowing
12	5	Foreign Exchange Management Meaning, Composition of Foreign Exchange Reserves And Its Importance
13	5	Forex Reserves and need of International Banking Foreign Currencies – Gold and SDR Impact of Forex market
14	5	Current Account Convertibility and its Importance of Business
15	5	Capital Account Convertibility Of Precautions importance and its need

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Bank Management**	Semester	**6**
Subject	**18EBM604 : RETAIL BANKING**	Course	**Bank Management**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Retailing Concepts Meaning History and definition, objectives Advantages and disadvantages of retail banking Recent trends in RB
2	1	role within the bank operations, SBU approach, departmental approach, and integrated approach
3	1	Applicability of retailing concepts, In banking expansion and recent distinction between Retail and Corporate/Wholesale Banking.
4	2	RETAIL PRODUCTS Meaning and concepts Retail Products Overview Objectives of retail products
5	2	Customer requirements, Needs and wants Customer database, Products development process,
6	2	Liabilities and Assets Products Loans or credits and SACA, deposits, Fixed and recovering Description of Liability products, Description of Asset Products.
7	3	Credit / Debit Cards Meaning and definition Objectives Needs and importance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Credit Vs Debit Cards, Eligibility, Purpose, Amounts, Margin,
9	3	Security and importance, Process of using the cards, Billing Cycle, and its concepts Credit Points and purpose
10	4	Marketing / Selling of retail products, Mode of selleing, importance and aims
11	4	Tie –up with Institutions for Delivery Channels Branch, Extension counters, ATM, POS,
12	4	Internet Banking, M- Banking Meaning and its features Recent trends
13	5	Customer Relationship Management meaning and definition Advantages and disadvantages Objectives of CRM
14	5	Role of Customer relationship and impact of Customer relationship
15	5	Stages in customer relationship management process. Account opening, basic loan origination data.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**AECM202T : BUSINESS ECONOMICS - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Perfect Competition -Meaning-Definition-Features-Pricing under perfect competition.
2	1	Firm & Industry-Meaning-Difference between Firm & Industry-Equilibrium of the Firm and Industry in short run & long run.
3	1	Derivation of the Supply Curve – Market Adjustment Process – Time Element Theory.
4	2	Difference between Perfect competition & Imperfect Competition-Monopolistic Competition -Meaning -Features-Pricing & output determination.
5	2	Product Differentiation –Meaning-Methods - Selling Cost – Meaning-Types-Duopoly- Meaning -Cournot model.
6	2	Oligopoly – Meaning-Featuresl – Kinked Demand Curve – Collusion and Price Leadership.
7	3	Factor Pricing- Meaning -Marginal Productivity Theory of Distribution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theories of Rent: Ricardian Theory, Modern Theory and Quasi Rent .
9	3	Theories Of Wages: Iron Law of Wages , Wage Fund Theory.
10	4	Theories of Interest- Loanable Fund Theory-Demand for Loanable Fund & Supply OF Loanable Fund.
12	4	Theories of Profit- Dynamic Theory, Uncertainity Theory and Innovation Theory.
13	5	Welfare–Meaning - Definition-Positive Economics & Welfare Economic-Individual welfare &Social welfare.
14	5	Divergence between Individual and Social Welfare-New Welfare Economics Pareto's Welfare Criterion.
15	5	REVISION
11	4	Liquidity Preference Theory-IS & LM .

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM102T : BUSINESS ORGANISATION**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning – Characteristics - Objectives - Criteria for Success in Modern Business
2	1	Classification of Business-Profession - Meaning-Distinction between Business and Profession - Social Responsibility of Business.
3	2	Forms of Business Organisation Sole Trader – Partnership firm - concepts of Limited Liability Partnership firm,
4	2	Joint Stock Company – Definition – Meaning – Characteristics – Advantages – Limitations
5	2	One Man Company- Virtual Organization- Private and Public Limited Company – Government Companies – Public Utilities- Cooperative Societies
6	3	Meaning - Theories of Location - Factors Influencing Location - Plant Layout
7	3	Meaning – Objectives - Characteristics of Good Layout - Size of Firm-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Meaning - Concept of Size - Measures of Size.
9	1	Revision Test
10	4	Business Combination Definition - Meaning – Advantages and Limitations
11	4	Types of Combination – Chamber of Commerce – Meaning – Advantages and functions -Trade Associations – Features and functions.
12	5	Multinational Corporations (MNC's) Definition - Distinction among IC, MNC, GC and TNC - Characteristics of MNC's-cultural impact of MNC's.
13	5	Factors contributed for the growth of MNC's – Advantages and Disadvantages of MNC's
14	5	Control over MNC's – Organization Design and Structure of MNC, s – Relationship between Headquarters and Subsidiaries – MNC's in India.
15	2	Revision Test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM204T : PRINCIPLES OF MARKETING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Market- Meaning- Definition- Classification of markets. Marketing – Meaning – Definition- Evolution – Approaches - Modern marketing concepts.
2	1	2. Marketing Mix with Extended 7Ps and 10 Ps- Meaning-Concepts - Role of Marketing in Economic Development
3	1	3. Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	4. Meaning- Features-Classification of products- Product Mix-Product Innovation-New Product Development-Product Life Cycle.
5	2	5. Branding- Meaning- Advantages and Limitations.
6	2	6. Packaging – Meaning – Kinds – Labeling – Meaning-Advantages and Limitation.
7	3	7. Price – Meaning - Pricing- Importance – Objectives

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	8. Factors affecting pricing decisions Pricing Policies-Procedure
9	3	9. Procedure for price determination- Kinds of Pricing. -Revision
10	4	10. Meaning-Importance-Marketing and Distribution-Middlemen in distribution -Function and Kinds of Middlemen -Agents and Merchant Middlemen-Wholesalers ,
11	4	11. Types - Services rendered by wholesalers - Retailers- Types – Requisites – Services rendered by retailers-
12	4	12. Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
13	5	13. Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages – Limitations
14	5	14. Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy
15	5	15. Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising. Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM101Q : FINANCIAL ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Accounting-Introduction-meaning and definition-Types of accounting-Accounting concepts and conventions-double entry system-Accounting rules-Journals.
2	1	Ledger-Subsidiary books-Trial balance-preparation of profit and loss account and Balance sheet.
3	1	Advantages and disadvantages of Accounting- Uses of Financial Statement-Accounting of sole trading concern and non-trading concern.
4	2	Single Entry System- Meaning and Definition- Preparation of Trading profit and loss A/c and statement of affairs
5	2	Net worth Method- Conversion Method- Difference between Single Entry System and Double Entry System- Difference between Balance Sheet and Statement of Affairs.
6	3	Accounting for Non-trading concerns- Meaning and Definition of Income, Expenditure
7	3	General and Special Funds- Preparation of Receipts and Payment A/c,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	, Income and Expenditure A/c & Balance Sheet
9	3	Revision
10	4	Consignment- Meaning- Accounting for consignment transaction- stock valuation-
11	4	preparation of consignment A/c- Normal loss and abnormal loss calculation
12	5	Joint Venture- Meaning and Definition- Difference between partnership and joint venture
13	5	Journal entries for Joint Venture transactions when separate book for joint venture is maintained
14	5	Problems in Joint Venture transactions
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM203T : FINANCIAL ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Average Due Date-meaning of Average due date-Uses of Average due date
2	1	basic problems in average due date-calculation of interests-account current-counting of days
3	1	methods of calculating interests-simple problems.
4	2	Branch – Meaning - Types of branches - Department branches – difference between branch and Department
5	2	Preparation of trading account of branches under debtor system – Stock and debtors system
6	2	whole sale branch system and Final account systems.
7	3	Introduction – Allocation of expenses – Calculation department purchase Interdepartmental transfers at cost price

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Selling price – Preparation of trading and Profit & Loss account of the department.
9	3	Revision
10	4	Accounting Treatments - Admission of partner
11	4	Retirement of Partner – Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems)
12	5	Dissolution of firm – Modes of dissolution – insolvency of a partner - Garner Vs. Murray rule
13	5	Insolvency of all partner – Piecemeal distribution
14	5	proportionate capital method- Maximum loss Method (simple problems)
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**NIRMAL RAJ S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Demand –Meaning-Definition-Factors Influencing Demand
2	2	Law of Demand – Exceptions to the Law of Demand
3	2	Elasticity of Demand –Types of Elasticity of Demand
4	2	Demand Forecasting-Meaning-
5	2	Definition-Objectives.
6	3	Indifference Curve Analysis
7	3	Marginal Rate of Substitution

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties of Indifference Curves
9	3	Indifference Map-Budget line or Price line
10	3	Consumer’s Equilibrium-Consumer Surplus .
11	4	Introduction-Factors of Production-Production Function
12	4	Importance of Production Function
13	4	The Cobb-Douglas Production Function
14	4	The Law of Variable Proportions
15	4	The Law of Returns to Scale

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bharatha thesam - Bharathiyar, ulagappan pattu - Bharathidasan
2	1	Yesu kaviyam - kannadasan, puthiya erpadu - vairamuthu
3	1	Thesa pithavukku theru padagan Anjali - mu metha
4	3	Sirukathaikal: kuruthu - Inthumathi, parisu - vinayagamurthi
5	3	Sirukathai: Sevvazhai - Arinar Anna
6	5	Elakkanam: Uvamai ani, eduthukattu uvamai ani
7	5	Sorporul pinvarum nilai ani, tharkuripetra ani

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Vallotru migumidam, miga idam
9	2	Silappathikaram - Adaikkala kathai
10	2	Manimegalai - sakkaravala kottam. Kambaramayanam - Vali vathai padalam
11	2	Manikka vasagar - Thiruko thumbi, thayumanavar - Parapara kanni
12	2	Thirikuda rasappa kavirayar - kutrala kuravanchi
13	4	Urainadai : nalvazhvu - panpadu
14	4	Urainadai: nalvazhvu - pothumai or Aram
15	4	Urainadai : nalvazhvu - neenthuga

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LESSON PLAN

Name of the Staff	**ASHOK KUMAR K Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling
3	1	Quiz game
4	2	Seminar
5	2	Debate
6	2	Group Discussion
7	3	Book Review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Film Review
9	4	Speech on current events
10	4	Welcome Address
11	4	Vote of Thanks
12	4	Report Writing
13	5	Narrating Dreams
14	5	Narrating Ambition
15	5	Revision

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LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to business economics, meaning,definition, nature and scope of business economics. And economist role, role of business economist.
2	1	Price determination, Quality and Quantity and Profit Maximization
3	1	Relationship of Business Economics and other disciplines. like Micro Economics, Macro Economics, Indian Economics, International Economics.
4	2	Demand Analysis, meaning of demand and factors influencing demand, Income, price and willingness to pay
5	2	Law of Demand, meaning and definitions, exception to the law of demand like giffen paradox, demonstration effect, fear to rise price.
6	2	Elasticity of Demand ,Types of Elasticity of Demand ,Demand Forecasting,Meaning Definition,Objectives. price elasticity, Income and Cross elasticity of demand
7	3	Indifference curve analysis, meaning of indifference curve and what is different names of indifference curve and map

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	properties of indifference curve and marginal rate of substitution
9	3	Indifference Map Budget line or Price line-, Consumer's Equilibrium Consumer Surplus .
10	4	Theory of Production, what is production and meaning of production, Factors of Production
11	4	production function and importance of production function , Input and output method
12	4	The Cobb-Douglas Production Function The Law of Variable Proportions ,The Law of Returns to Scale .
13	5	Cost functions- Meaning of cost, short run cost curves, Marginal cost Average cost
14	5	Total Cost, fixed cost, and variable cost and other cost
15	5	Relationship between average cost and Marginal cost and long run average cost curve.

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT- I Preparatory language skills 1. Indian Women - S. Radhakrishnan (Prose) 2. The Solitary Reaper – William Wordsworth (Poem)
2	1	UNIT- I Preparatory language skills 3. The Purple Dress – O'Henry (Short Story)
3	2	UNIT-II Basics of Business English 1. Importance of Effective Communication in Business Contexts 2. Face – to - Face Communication with Customers and Visitors. 3. Basic Skills for Talking to People in Transactional Situations 4. Receiving Visitors 5. ...
4	2	6. Making Small Talk and Telling Stories. 7. Group Discussions 8. Preparing for Interviews 9. Taking Interviews 10. Promotion Interviews
5	5	JOBS AND CAREERS 1.Standard Business Letter 2. Applying for Jobs and Preparing Resumes
6	5	3. Writing cover letters for resumes
7	3	I C.I.A

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Unit 3-Literature Give us a Role Model(Prose)- Dr.A.P.J. Abdul Kalam J.R.D. Tata's Words of Inspiration to Sudha Murthy(Prose)
9	3	Souvali(Story) by Mahaswetha Devi
10	4	UNIT-IV Discussions / Meetings / Team Skills 1. Preparing Agenda for Meetings 2. Writing Minutes of Meetings 3. Making Notes of Business conversations
11	4	Discussions / Meetings / Team Skills 4. Making Business Presentations 5. Business promotions and Language for Advertising 6. Negotiating
12	4	Discussions / Meetings / Team Skills 7. Communication Skills with Public, Fellow Employees, Supervisors and Customers 8. Soft Skills for Team Building
13	4	Discussions / Meetings / Team Skills 9. Team Maintenance and Task Maintenance roles 10. Brainstorming and Consensus – Making Communication
14	5	Syllabus completed II CIA
15	5	Revision

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LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**AECM202T : BUSINESS ECONOMICS - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Perfect Competition -Meaning-Definition-Features-Pricing under perfect competition.
2	1	Firm & Industry-Meaning-Difference between Firm & Industry-Equilibrium of the Firm and Industry in short run & long run.
3	1	Derivation of the Supply Curve – Market Adjustment Process – Time Element Theory.
4	2	Difference between Perfect competition & Imperfect Competition-Monopolistic Competition -Meaning -Features-Pricing & output determination.
5	2	Product Differentiation –Meaning-Methods - Selling Cost – Meaning-Types-Duopoly- Meaning -Cournot model.
6	2	Oligopoly – Meaning-Featuresl – Kinked Demand Curve – Collusion and Price Leadership.
7	3	Factor Pricing- Meaning -Marginal Productivity Theory of Distribution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theories of Rent: Ricardian Theory, Modern Theory and Quasi Rent .
9	3	Theories Of Wages: Iron Law of Wages , Wage Fund Theory.
10	4	Theories of Interest- Loanable Fund Theory-Demand for Loanable Fund & Supply OF Loanable Fund.
12	4	Theories of Profit- Dynamic Theory, Uncertainity Theory and Innovation Theory.
13	5	Welfare–Meaning - Definition-Positive Economics & Welfare Economic-Individual welfare &Social welfare.
14	5	Divergence between Individual and Social Welfare-New Welfare Economics Pareto's Welfare Criterion.
15	5	REVISION
11	4	Liquidity Preference Theory-IS & LM .

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM203T : FINANCIAL ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Average Due Date - meaning of Average due date - Uses of Average due date -basic problems in average due date - calculation of interests
2	1	account current - counting of days - methods of calculating interests - simple problems.
3	2	Branch Accounts: Branch – Meaning - Types of branches - Department branches – difference between branch and Department
4	2	Preparation of trading account of branches under debtor system – Stock and debtors system
5	2	whole sale branch system and Final account systems.
6	3	Departmental Accounts: Introduction – Allocation of expenses
7	3	Calculation department purchase Interdepartmental transfers at cost price - Selling price

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of trading and Profit & Loss account of the department.
9	3	Revision for I- CIA
10	4	Admission and Retirement of Partners: Accounting Treatments - Admission of partner (Adjustments Regarding profit sharing Ratio, Good will and Capital)
11	4	Retirement of Partner (Adjustments Regarding profit sharing Ratio, Good will and Capital)
12	4	Death of Partner
13	5	Dissolution of Partnership : Dissolution of firm – Modes of dissolution – insolvency of a partner - Garner Vs. Murray rule - Insolvency of all partner
14	5	Piecemeal distribution – proportionate capital method - Maximum loss Method
15	5	Revision for II-CIA

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DEVASENA J Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bharathiyar-Bharathathasam Bharathidasan ulagappan pattu
2	1	Kannadasa-Uthari mainthan Vairamuthu-Pithiya Arpadu
3	1	M.Matha Dasapithaukku oru Tharupadaganin Angali
4	3	Indumathi kuruthu
5	3	Anna Sevazhi Vinayagamoorthi parisu
6	5	UvamiAni Aduthukattu uvami Ani solporul uvami Ani
7	5	Tharkurippu Atra Ani Vallu ortru migum idam;vallu ortru miga idam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Silapathigaram Adigala kathi
9	2	Manimagalai Sakkaravalakotam
10	2	Kambaramayanam Valivathi padalam
11	2	Manikavssagar -Thirukoththumbi Thayumanavar-Parapara kanni
12	2	Kutrala kuravangi
13	4	M.V.Pnpadu
14	4	M.V.Pothumai oru Aram
15	4	MV,Neenthuga

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introducing oneself
2	2	Tenses
3	3	Tenses Usage
4	4	Role play
5	5	Small Utterances
6	2	Framing questions
7	3	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reading skill
9	3	Speaking skill
10	4	Writing skill
11	5	Grammar
12	3	Listening skill test
13	4	Speaking skill test
14	5	Writing skill test
15	5	Grammar test

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM102T : BUSINESS ORGANISATION**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business- Meaning, Definition, Nature, Objectives of Business ,Criteria for business in Modern business
2	1	Classification of business, Professsion- Meaning, Definition, Business vs Profession, Social Responsibility of business
3	2	Form of Business organisation - Sole Trader - Meaning - Characteristics - Merits and Demerits, Partnership firm - Definition
4	2	Characteristics - Advantages and Demerits - Joint stock company - Meaning - Definition - Features - Advantages - Limitation
5	2	One man company - Virtual organisation - Public company - Private company - Government company - Public utilities - Co operative society
6	3	Location of Industry - Location - Meaning - Theories of Location - Factors influencing location - Plant Layout
7	3	Meaning - Definition - Objectives - Characteristics of good layout

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Size of firm - Meaning - Concept of size - Different measures of size
9	3	Revision Unit 1, 2, 3
10	4	Business combination - Meaning - Definition - Advantages and limitations of Business combination
11	4	Types of business combination - Chamber of commerce - Meaning - Advantages and functions - Trade association - Meaning - Features - Functions and advantages
12	5	Multinational corporation (MNC's) - Definition - Meaning - Distinction among IC - MNC - GC & TNC
13	5	Characteristics of MNC's - Cultural impact of MNC's - Factors contributed for the growth of MNC's - Advantages & Disadvantages
14	5	Control over MNC's - Organisation Design and Structure of MNC's - Relationship between Headquarters and subsidiaries - MNC's in India.
15	5	Revision Unit 4, 5

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM204T : PRINCIPLES OF MARKETING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Market- Meaning- Definition- Classification of markets. Marketing – Meaning – Definition- Evolution – Approaches
2	1	Modern marketing concepts - Marketing Mix with Extended 7Ps and 10 Ps- Meaning-Concepts -
3	1	Role of Marketing in Economic Development-Market Segmentation-Definition –Requirements –Bases for Market Segmentation.
4	2	II Product Meaning- Features-Classification of products- Product Mix-Product Innovation-New Product Development.
5	2	Product Life Cycle.-Branding- Meaning- Advantages and Limitations.
6	2	Packaging – Meaning – Kinds – Labeling – Meaning-Advantages and Limitation.
7	3	Pricing Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Pricing Policies- Procedure for price determination- Kinds of Pricing.
9	3	Revision
10	4	Distribution Channels Meaning- Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen - Agents and Merchant Middlemen-Wholesalers –Types .
11	4	Services rendered by wholesalers - Retailers- Types – Requisites – Services rendered by retailers.
12	4	Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
13	5	Promotion Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
14	5	Advertising- Meaning and definition– Medias – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy
15	5	Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising. Revision

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LESSON PLAN

Name of the Staff	**NIRMAL RAJ S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Demand –Meaning-Definition-Factors Influencing Demand
2	2	Law of Demand – Exceptions to the Law of Demand
3	2	Elasticity of Demand –Types of Elasticity of Demand
4	2	Demand Forecasting-Meaning-
5	2	Definition-Objectives.
6	3	Indifference Curve Analysis
7	3	Marginal Rate of Substitution

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties of Indifference Curves
9	3	Indifference Map-Budget line or Price line
10	3	Consumer’s Equilibrium-Consumer Surplus .
11	4	Introduction-Factors of Production-Production Function
12	4	Importance of Production Function
13	4	The Cobb-Douglas Production Function
14	4	The Law of Variable Proportions
15	4	The Law of Returns to Scale

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananuru - 192,183,akananuru 34,104
2	1	Kurunthokai 40,3,natrinai 110,139, paripadal 4,11
3	4	Pathinen keezhkanakku nolkal 1-9
4	4	Pathinen kezhkanakku noolkal 10-18
5	4	Sanga kalam Murchangangal, ettuthogai noolkal
6	4	Pathupattu noolkal
7	3	Thirukkural vinai. Porul therunthu seyal vagai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran vinnappangal, kadithangal, surukki varaithal
9	5	Mozhi thiran Nerkanal
10	4	Aatrupadai noolgal 1,2
11	4	Aatrupadai noolgal 3-5
12	2	Pattinapalai
13	2	Siripanattrupadai
14	2	Madurai kanchi Marutha nila varunanai
15	2	Mullaipattu

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LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee Story telling
2	1	Quiz game
3	2	Seminar Debate
4	2	Group Discussion
5	3	Book Review
6	3	Film Review
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Speech on Current Events Welcome Address
9	4	Vote of Thanks
10	4	Report Writing
11	5	Narrating Dreams
12	5	Narrating Ambition
13	5	Narrating Ambition
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INDIAN WOMEN, SOLITARY REAPER
2	1	THE PURPLE DRESS
3	2	IMPORTANCE OF EFFECTIVE COMMUNICATION IN BUSINESS CONTEXTS, FACE TO FACE COMMUNICATION WITH CUSTOMERS AND VISITORS, BASIC SKILLS FOR TALKING TO PEOPLE IN TRANSNATIONAL SITUATIONS
4	2	RECEIVING VISITORS,BOOKING HOTEL ACCOMMODATION, MAKING SMALL TALKS AND TELLING STORIES, GROUP DISCUSSIONS
5	2	PREPARING FOR INTERVIEWS , TAKING INTERVIEWS , PROMOTION INTERVIEWS
6	3	GIVE US A ROLE MODEL - A.P.J. ABDUL KALAM
7	3	SOWALI- MAHAWSETA DEVI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	J.R.D'S WORDS OF INSPIRATION TO SUDHA MURTHY
9	4	PREPARING AGENDA FOR MEETINGS, WRITING MINUTES OF MEETINGS, MAKING NOTES FOR BUSINESS PRESENTATIONS BUSINESS PROMOTION AND LANGUAGE FOR ADVERTISING
10	4	NEGOTIATING, COMMUNICATION SKILLS WITH PUBLIC,FELLOW EMPLOYEES, SUPERVISORS AND CUSTOMERS
11	4	SOFT SKILLS FOR TEAM BUILDING, TEAM maintenance and task maintenance, BRAINSTORMING AND CONSENSUS- MAKING COMMUNICATION
12	5	STANDARD BUSINESS LETTERS
13	5	APPLYING FOR JOBS AND PREPARING resumes
14	5	WRITING COVER LETTERS FOR RESUME
15	5	WRITING COVER LETTERS FOR RESUME

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LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to business economics, meaning,definition, nature and scope of business economics. And economist role, role of business economist.
2	1	Price determination, Quality and Quantity and Profit Maximization
3	1	Relationship of Business Economics and other disciplines. like Micro Economics, Macro Economics, Indian Economics, International Economics.
4	2	Demand Analysis, meaning of demand and factors influencing demand, Income, price and willingness to pay
5	2	Law of Demand, meaning and definitions, exception to the law of demand like giffen paradox, demonstration effect, fear to rise price.
6	2	Elasticity of Demand ,Types of Elasticity of Demand ,Demand Forecasting,Meaning Definition,Objectives. price elasticity, Income and Cross elasticity of demand
7	3	Indifference curve analysis, meaning of indifference curve and what is different names of indifference curve and map

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	properties of indifference curve and marginal rate of substitution
9	3	Indifference Map Budget line or Price line-, Consumer's Equilibrium Consumer Surplus .
10	4	Theory of Production, what is production and meaning of production, Factors of Production
11	4	production function and importance of production function , Input and output method
12	4	The Cobb-Douglas Production Function The Law of Variable Proportions ,The Law of Returns to Scale .
13	5	Cost functions- Meaning of cost, short run cost curves, Marginal cost Average cost
14	5	Total Cost, fixed cost, and variable cost and other cost
15	5	Relationship between average cost and Marginal cost and long run average cost curve.

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	1. Understanding Communication 2. Greeting and Introducing 3. Making Requests 4. Agreeing and Disagreeing
2	2	5. Seeking and Giving Permission 6. Persuading and Debating 8. Word and Sentence Stress
3	2	9. Effective Use of Intonation 10. Telephone Manners in Business Situations 11. Handling Customer Orders and Enquiries 12. Handling Complaint Calls
4	1	1. Character is Destiny – S. Radha Krishnan (Prose) 2. All the World's a Stage – William Shakespeare (Poetry)
5	5	3. The Never Never Nest – Cedric Mount (Play) 1. Publicity Literature (Advertisements) 2. Note Making
6	2	7. Sounds and Symbols in English
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	4	4. Channel Awareness 5. Role of Non – Verbal Communication 6. Pragmatics
10	4	7. Handling Delivery and After – Sales Problems 8. Taking Part in Teleconferences 9. Tele – Interviews
11	3	1. The Gift of the Magi – O'Henry (Short Story) 2. Mallala Yousafzai Pakistani Activist – Naomi Blumberg (Biography)
12	3	3. The Monkey's Paw – W.W Jacob (One – Act Play) 1. Effective Listening 2. Understanding the Audience 3. Perceptual Clarity
13	5	1. Publicity Literature (Advertisements) 2. Note Making 3. Report Writing
14	2	II CIA
15	5	Overall Revision

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LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM305P : CORPORATE ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ISSUE OF SHARES-INTRODUCTION-MEANING-DEFINITION-FEATURES-KIND OF COMPANIES-UNDER SUBSCRIPTION AND OVER SUBSCRIPTION
2	1	ISSUE OF SHARES AT PAR-AT PREMIUM-AT DISCOUNT-CALLS-IN-ARREARS-CALLS-IN-ADVANCE
3	1	FORFEITURE OF SHARES-REISSUE OF FORFEITED SHARES-BALANCE SHEET
4	2	INTRODUCTION-MEANING-PROVISION OF THE COMPANIES ACT SECTION 80 AND 80A
5	2	STEPS INVOLVED IN REDEMPTION OF PREFERENCE SHARES
6	2	BALANCE SHEET(REVISED SCHEDULE VI)
7	3	ACQUISITION OF BUSINESSS INTRODUCTION-MEANING-METHODS OF ESTIMATION

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	WHEN SET OF BOOKS ARE OPENED-NET ASSET METHOD-NET PAYMENT METHOD-DEBTOR AND
9	3	CREDITOR TAKEN OVER BEHALF OF VENDORS-WHEN SAME SET OF BOOKS ARE CONTINUED –WHEN DEBTOR AND CREDITORS ARE NOT TAKEN OVER
10	4	PROFITS PRIOR TO INCORPORATION INTRODUCTION-MEANING-METHODS
11	4	OF ASCERTAINING PROFIT OR LOSS PRIOR TO INCORPORATION
12	4	BASIS OF APPORTIONMENT OF EXPENSES AND PREPARATION OF STATEMENT
13	5	FINAL ACCOUNTS OF COMPANIES INTRODUCTION-STATEMENT OF PROFIT AND LOSS
14	5	(PART II OF REVICED SCHEDULE VI)- ADJUSTMENT THE ABOVE TRANSACTION
15	5	BALANCE SHEET(PART I OF REVISED SCHEDULE VI)-MANAGERIAL REMUNERATION

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Indian Contract Act - Meaning and Definition - Objectives - Need - Law of contract.
2	1	Agreement - Meaning - Essential elements - Valid contracts - classification of contracts
3	1	Offer and Acceptance - essential elements - legal rules - communication of offer, acceptance.
4	2	Consideration – Definition – Meaning – Legal Rules as to Consideration – Valid Contracts without Consideration. Capacity to Contract
5	2	Agreements with Minor – Minor's Liability for Necessaries Free Consent – Coercion – Undue Influence – Fraud – Misrepresentation – Mistake. Agreements Opposed to Public Policy.
6	3	Breach of Contract – Meaning - Remedies for Breach of Contract
7	3	Breach of Contract – Meaning - Remedies for Breach of Contract

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	remedies for breach of contract ,quasi contract .types of contracts rules and regulations of quasi contract.
9	0	revision
10	4	Sale of Goods Act 1930 -Definition of Sale - Sale Vs. Agreement to Sell, Goods - Condition and Warranties
11	4	Warranty vs. Guarantee - Express and Implied Conditions - “Doctrine of Caveat Emptor” - Rights of Unpaid Seller.
12	5	The Consumer Protection Act, 1986. – Definition of “Consumer” – Objectives –Role of Consumer Protection Council
13	5	Central Council and State Council – Consumer Disputes Redressal Agencies: Meaning of Deficiency in Service -District Forum for Consumer Redressal
14	5	National Commission—Jurisdiction – Composition – Appeal. State Commission - Jurisdiction – Composition – Appeal.
15	0	revision

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Company, meaning, definition. Lindsay of companies, limited company, unlimited company, public company and private company.
2	1	Government companies, Statutory companies, one person company. Difference between Government and Private company.
3	1	Holding company, auditory company, corporate company,.Social responsibility under section 35 of 2013.
4	2	Formation of a company, promotion and promoter meaning, definition. Functions of promoter. Incorporation of certificste ,commencement of certificate.
5	2	Documents of companies, Memorandum of Association, meaning and definition, contents of memorandum of association, alteration of memorandum of association.
6	2	Articles of association meaning and definition. Content of articles of association provisions and procedures for alterations of articles of association. Distinction between Memorandum of association and articles of association.
7	3	Prospects meaning, definition. Contents of prospects. Statement in lies of prospects.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Share capital. Types of share capital, provision, alteration, conversion of share capital. Buy back of shares and commencement of Business..
9	3	Revision of 1st ,2nd ,3rd.
10	4	Management of companies. Directors, Independent Doctor, meaning and definition. Appointment of doctors, Qualification and Remuneration of directors.
11	4	Rights and Responsibility and liabilities of Doctors. Women Director meaning,responsibilities,Rigjts and Remuneration. Company Secaratry, meaning and definition. Appointment dismissal, qualification of security.
12	4	Duties and Responsibility of company secaratry.Meeting,meaning,statutory meeting, Annual meeting, Board meeting, Agenda, Quorum, proxy, Resolution. Types of meeting.
13	5	Winding up companies, meaning and definition. Modes of winding up. Winding up by court.
14	5	Role of liquidators in winding up by court. Voluntary winding up. Liquidators in voluntary winding up.
15	5	Revision of 4th, 5th unit.

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM409T : BANKING LAW AND PRACTICE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT –I Introduction to Bank Bank –Meaning, Definition, Classification, types of banks and their functions and Services
2	1	- Commercial Banks - Universal Banking :their functions and Services-Central Bank - Credit control measures .
3	2	EXIM Bank - Deposit Insurance and Credit Guarantee Corporation. UNIT –II Negotiable Instruments Cheque - Essentials of a Cheque - Crossing of a Cheque
4	2	- General Crossing - Special Crossing - Payment of Cheque
5	2	- Collection of Cheque- Endorsement - Debit Card - Credit Card - Green Card - Smart Card.
6	3	UNIT –III Banker and Customer Relationship and Types of Customers Banker - Customer - General and Special relationship between Banker and Customer - Opening of Current A/C
7	3	Opening of Saving - Recurring - Fixed deposit Accounts - Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company -: Non - Trading Institutions.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revisions
9	4	UNIT –IV NABARD, RRBs and SHGs National Bank for Agricultural and Rural Development (NABARD) - Objectives - Features - Functions
10	4	Co-operative Banks - Regional Rural Banks (RRBs) - Contribution to social and rural development - Micro Credit(SHGs).
11	4	NABARDs,RRB, SHGs Contribution to social and rural development - Micro Credit(SHGs).
12	5	UNIT–V Innovation of Banking Technologies E-Banking - Internet Banking - Telephone Banking - Mobile Banking- ATMs - Cash Machine - Electronic Money
13	5	–- Electronic Fund Transfer System (EFT) - Indian Financial Network - Customer Grievances Redressal and Ombudsman
14	5	core banking system – Electronic Clearing Services (ECS).
15	2	revision

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM408P : CORPORATE ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill
2	1	Goodwill Methods-Average profit method-Weighted Average-Super profit method-Annuity method-Capitalization Method.
3	1	Shares-Introduction-Meaning-Definition-Need-Factors affecting valuation of sharesMethods-Net asset method-Yield method-Fair value method.
4	2	Alteration of Share Capital and Internal Reconstruction -- Meaning-Different kinds of alteration of share capital-
5	2	Capital reduction-Procedure for reduction of share capital.
6	3	Amalgamation-Introduction-Meaning -Introduction-Meaning (Accounting Standard 14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase
7	3	Computation of Purchase Consideration-Lump sum method-Net payment method-Net asset method-Intrinsic value method-Absorption-Meaning-Methods- Net payment method-Net asset method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Intrinsic value method-External Reconstruction-Introduction-Meaning-Methods-Lump sum method-Net payment method(Intercompany holding excluded).
9	1	1st Revision
10	4	Holding Company-Introduction-Meaning-Definition-Subsidiary Company-Meaning-Capital Profit-Revenue
11	4	profit-Minority Interest-Goodwill/Capital reserve-Unrealized profit-Computation of consolidated balance sheet (As per Revised Schedule VI).
12	5	Bank Accounts-Introduction-Meaning-Business of banking companies-Legal requirements
13	5	Preparation of profit and loss accounts (Form ‘B’ of Schedule III)
14	5	Balance Sheet (Form ‘A’ of Schedule III).
15	2	Revision 2

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Group discussion - meaning- importance
2	4	Characters tested in GD- Tips on GD
3	4	Types of GD
4	4	Skills required in GD
5	4	Essential elements of GD
6	4	Non- Verbal communication in GD
7	4	Etiquette - Meaning- Benefits

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Manners- meaning- poor manners
9	1	Revision
10	5	Career Planning- benefits
11	5	Myths of Career planning
12	5	Resume- meaning
13	5	Types of resume
14	5	CV writing Tips
15	2	Revision

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ACM301 : BUSINESS CORRESPONDENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Essentials of effective business letter-Business correspondence-Needs-Functions
2	1	Kinds of Business letter-Essentials of effective business letter-Layout.
3	2	Business enquiries and replies - Credit and status enquiries
4	2	Placing and fulfilling orders - Complaints and adjustments - Collection letters - Circular letters
5	2	Sales letters.Application for employment - References - Testimonials - Letters of appointment - Confirmation - Promotion - Retrenchment and resignation.
6	3	Bank Correspondence – Insurance Correspondence – Agency Correspondence – Correspondence with Shareholders, Directors - Introductions and Overviews
7	3	Agency Correspondence - Letters on Agency Correspondence

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Correspondence with Shareholders, Directors.
9	3	Revision
10	4	Reports Writing – Agenda, Minutes of Meeting
11	4	– Memorandum – Office Order
12	4	Circular – Notes.
13	5	Fax – Email – Video Conferencing – Internet
14	5	Websites and their use in Business.
15	5	Revision

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM306Q : PRINCIPLES OF MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to managemet-meaning-Definition-Function of management -managerial skills -levels of management -Roles of a manager -management As a science and Arts.
2	1	Approaches to management -contribution's to management By Hentry Fayol-Elton Mayo-Peter F. Drucker -and C. K. Prahalad
3	2	Planning – Meaning, Definition, importance, process, types
4	2	methods (Objectives- Policies- Procedures - Strategies &Programmes).
5	2	Obstacles to effective planning.Decision making – Steps, Types, Decision Tree.
6	3	Organization - Importance - Principles of Organisation. Delegation & Decentralization –
7	3	Departmentation - Span of Management. Organizational structure: line & staff and functional

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	- organizational charts and manual-making organizing effective-Staffing-recruitment -selection-Training, promotion and appraisal.
9	3	Revision
10	4	Function of directing - Motivation - Theories of motivation (Maslow, Herzberg and Vroom's theories)
11	4	Motivation techniques. Communication - Function - Process - Barriers to effective communication.
12	4	Leadership-Definition-Theories and approach to leadership-styles of leadership-Types
13	5	Meaning, Definition, Nature - Problems of effective coordination. Control - Nature - Basic control process -
14	5	control techniques (traditional and non-traditional)-Use of Computers in managing information – Concepts of keizen – six sigma.
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**NIRMAL RAJ S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AECM403S : INDIAN ECONOMY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Economic Growth and Economic Development.
2	1	Concept and Difference -Features of a Developing Economy .
3	1	Determinants –Concept and Difference -Features of a Developing Economy
4	2	National Income National Income- Concepts-Estimates of National Income – Methods of Calculating National Income
6	2	Structural Changes in Structural Changes in Indian Economy As Seen
5	2	Difficulties in the Calculation of National Income – Causes for Slow Growth of National Income
7	3	Problems of the Indian Economy Major Problems of the Indian Economy Poverty - Inequality -unemployment.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Present status of Indian agriculture-Food Self-sufficiency and Food Security in India
9	3	Measures to Reduce Poverty –Employment Generation Schemes.
10	4	Industrial Sector Industrialization -Role-Pattern-Effects of industrialization-Large scale industries-Iron and Steel industry.
11	4	Cotton industry-Sugar industry-Cement industry-Petrol chemical industry-Automobile industry-Growth of IT industry in India .
12	4	Role of Small Scale industries in India-SIPCOT-TIDCO-SIDCO-TIIC-DIC .
13	5	Infrastructure for Economic Development Infrastructure –Concept-Recent measures to develop Infrastructure
14	5	Energy-Classification of Energy-Communication
15	5	Health-Education

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow –
5	2	ecological succession – food chains, food webs and ecological pyramids –
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act –
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ASCM301Q : BUSINESS STATISTICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of statistics , uses and limitations of statistics, Collection of data – Primary data and Secondary data – Different methods of collecting primary data – Classification and Tabulation of Statistical data.
2	1	Frequency distribution: Simple and Cumulative. Measures of Central value: Arithmetic Mean, Median, Mode explain the formula, and related problems.
3	1	Geometric Meanexplain the formula, and related problems. and Harmonic Mean explain the formula, and related problems.
4	2	Measures of Dispersion: define dispersion, uses of Dispersion, Discuss the various measures of Dispersion, Range Definition , explain the formula, and related problems. Quartile Deviation definition, Q.D. related problems, Mean Deviation from mean and M.
5	2	Standard Deviation definition, explain the formula, and standard deviation related problems. Combined standard deviation and Coefficient of Variation related problems.
6	2	Measures of Skewness: define skewness explain the types of skewness ,and measuring methods of skewness. Karl Pearson's skewness related problems, and Bowley's co-efficient of skewness method related problems.
7	3	Correlation-Definition, uses and their properties, explain the various types of correlation, Karl Pearson's coefficient of correlation explain the formula and related problems,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expalin Spearman's rank correlation coefficient concept and their formulas, Spearman's rank correlation coefficient RANK GIVEN method related problems, Spearman's rank correlation coefficient RANK NOT GIVEN method related problems,
9	3	Spearman's rank correlation coefficient REPEATED RANK method related problems Concurrent deviation method related problems. explain the scatter diagram method , Regression analysis: definition expalin the Simple regression equations and related prob...
10	4	Index numbers , Uses of index Numbers , Problems in the Construction of Index Numbers , Methods of Constructing Index Numbers ,Simple Aggregative Method ,Weighted Aggregative Indices problems.
11	4	Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices –
12	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
13	5	Time Series definitions, Uses of time series analysis and Components of Time series analysis. Measurement of Trend: Semi-average method, free hand method.
14	5	Moving Average Method (problems up to 5 yearly) , Least Square Method (Fitting of straight line).
15	5	Measurement of Seasonal Variation: Method of Simple Averages , Ratio-to-trend Method , Link Relative Method. problems.

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AMCM401 : BUSINESS MATHEMATICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic concepts – Subsets
2	1	Operations on sets Applications – Cartesian Product
3	1	Relation – Properties of relation- Functions
4	2	Distance – Slope
5	2	Equation of Straight line – Interpretation
6	2	Break even analysis – Parabolas
7	3	Limits – Continuity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Average & Marginal concepts
9	3	Differential coefficient concepets – Simple applications to Economics
10	4	Addition of matrices –Scalar multiplication-
11	4	Multiplication of a matrix by a matrix- Inverse of a matrix
12	4	Solution of a system of linear equation –Input output Analysis
13	5	Percentages – Simple interests
14	5	Compound interests – Arithmetic series
15	5	Geometric Series – Simultaneous Linear equations

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AECM403S : INDIAN ECONOMY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Economic growth and Economic Development
2	1	Economic growth and its concepts, Economic development and its concepts deference between Economic growth and Economic development
3	1	Features of a Developing Economy , Determinants of Development and Growth Obstacles to Economic Development.
4	2	National Income Meaning of National Income Concepts, Estimates of National Income
5	2	Methods of Calculating National Income , production method, expenditure method and income method and Difficulties in the Calculation of National Income
6	2	Causes for Slow Growth of National Income , and its problems into the economy such as, population pressure, depends on agriculture, lack industrial developments. Structural Changes in Indian Economy As Seen in the National Income Data. (revision)
7	3	Problems of the Indian Economy. major problems of Indian Economy. Poverty and its defects into the economy. what is poverty, meaning poverty. types of poverty. causes of poverty.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Inequality, what is inequality and its effects into the economy. Unemployment, what is unemployment and types of unemployment.
9	3	Present status of Indian agriculture, Food Self-sufficiency and Food Security in India - Measures to Reduce Poverty – Employment Generation Schemes.
10	4	Industrial Sector, what is industrial sector and it meaning Industrialization -Role and Pattern of Industrialization and its Effects of industrialization
11	4	Large scale industries and its role on the economic development. Iron and Steel industry-Cotton industry-Sugar industry-Cement industry-Petro chemical industry-Automobile industry
12	4	Growth of IT industry in India, what is small scale industries and its economic development Role of Small Scale industries in India SIPCOT-TIDCO-SIDCO-TIIC-DIC . (revision)
13	5	Infrastructure for Economic Development definition and meaning of Infrastructure. concepts of Infrastructure. role of Infrastructure in economic development current situation Infrastructure in india
14	5	Recent measures to develop Infrastructure. budget allocation to develop Infrastructure
15	5	Energy- what is energy - renewable energy non renewable energy. -Classification of Energy-Communication- Health-Education. present status of inidan health as well as education (revision)

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LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM306Q : PRINCIPLES OF MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	Meaning, Definition, Nature - Problems of effective coordination.
2	5	Control - Nature -
3	5	Problems of effective coordination. Control
4	5	Nature - Basic control process
5	5	control techniques - Introduction
6	5	Traditional techniques
7	5	Non-traditional techniques

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Use of Computers
9	1	Revision Test
10	5	managing information
11	5	Concepts of keizen
12	5	Six sigma. - Introduction
13	5	Six sigma.- Application
14	5	Six sigma.- Impact
15	2	Revision test

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LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM305P : CORPORATE ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Issue of Shares –Meaning –Definition - Kinds of Companies - Under Subscription - Over Subscription and normal Subscription.
2	1	Problems on shares - Issues at par, discount and premium.
3	1	Forfeiture of Shares - Issues at par, discount and premium - Reissues of shares - Problem solving.
4	2	Redemption of Preference Shares : Meaning - Procedure for redumption - Section 80 and 80A
5	2	Problem on Redemption of Preference Shares - Based on profit and reserves.
6	2	Redemption of Preference Shares Based on Fresh issue of capital - Problem Solving
7	3	Acquisition of Business Introduction-Meaning-When new set of books are opened-Net asset method- Problem Solving

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Net payment method-Problem Solving -Debtors and Creditors taken over on behalf of vendors-When same set of books are continued-When Debtors and Creditors are not taken over.
9	4	Profits Prior to Incorporation : Introduction – Meaning - Methods of Ascertaining profit or loss prior to Incorporation.
10	4	Basis of Apportionment of Expenses- Problems - Profit and Loss and Final Accounts
11	5	Final Accounts of Companies : Introduction - statement of profit and loss (Part II of Revised Schedule VI)
12	5	Managerial Remuneration.
13	5	Balance Sheet (Part I of Revised Schedule VI)
14	5	profit and loss and Balance Sheet
15	5	Revision and Test

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Company, meaning, definition. Lindsay of companies, limited company, unlimited company, public company and private company.
2	1	Government companies, Statutory companies, one person company. Difference between Government and Private company.
3	1	Holding company, auditory company, corporate company,.Social responsibility under section 35 of 2013.
4	2	Formation of a company, promotion and promoter meaning, definition. Functions of promoter. Incorporation of certificste ,commencement of certificate.
5	2	Documents of companies, Memorandum of Association, meaning and definition, contents of memorandum of association, alteration of memorandum of association.
6	2	Articles of association meaning and definition. Content of articles of association provisions and procedures for alterations of articles of association. Distinction between Memorandum of association and articles of association.
7	3	Prospects meaning, definition. Contents of prospects. Statement in lies of prospects.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Share capital. Types of share capital, provision, alteration, conversion of share capital. Buy back of shares and commencement of Business..
9	3	Revision of 1st ,2nd ,3rd.
10	4	Management of companies. Directors, Independent Doctor, meaning and definition. Appointment of doctors, Qualification and Remuneration of directors.
11	4	Rights and Responsibility and liabilities of Doctors. Women Director meaning,responsibilities,Rigjts and Remuneration. Company Secaratry, meaning and definition. Appointment dismissal, qualification of security.
12	4	Duties and Responsibility of company secaratry.Meeting,meaning,statutory meeting, Annual meeting, Board meeting, Agenda, Quorum, proxy, Resolution. Types of meeting.
13	5	Winding up companies, meaning and definition. Modes of winding up. Winding up by court.
14	5	Role of liquidators in winding up by court. Voluntary winding up. Liquidators in voluntary winding up.
15	5	Revision of 4th, 5th unit.

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I Indian Contract Act 1872 Law - Meaning – Objectives – Need for the Knowledge of Law. Law of Contract – Contract- Definition – Agreement and its Enforceability – Consensus Ad Idem – Essential Elements of a Valid Contract –
2	1	– Classification of Contracts. Offer and Acceptance – Legal Rules as to Offer and Acceptance –
3	2	Communication of Offer, Acceptance and Revocation. UNIT – II Indian Contract Act 1872(Other Essential Elements) Consideration – Definition – Meaning – Legal Rules as to Consideration –
4	2	Valid Contracts without Consideration. Capacity to Contract - Agreements with Minor – Minor's Liability for Necessaries
5	2	Free Consent – Coercion – Undue Influence – Fraud – Misrepresentation – Mistake. Agreements Opposed to Public Policy.
6	3	Indian Contract Act 1872 (Special Contracts) Special Contracts – Bailment and Pledge – Indemnity
7	3	contract of Guarantee- Various Modes of Discharge of Contract – Breach of Contract

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Meaning - Remedies for Breach of Contract – Quasi Contract – Types.
9	1	1st 2nd 3rd units revision
10	4	Sale of Goods Act 1930 Sale of Goods Act 1930 -Definition of Sale - Sale Vs. Agreement to Sell, Goods - Condition and Warranties –
11	4	Condition and Warranties — Warranty vs. Guarantee - Express and Implied Conditions -
12	4	“Doctrine of Caveat Emptor” - Rights of Unpaid Seller.
13	5	Consumer Protection Act, 1986 The Consumer Protection Act, 1986. – Definition of “Consumer” – Objectives –Role of Consumer Protection Council – Central Council and State Council – Consumer Disputes Redressal Agencies:
14	5	Meaning of Deficiency in Service -District Forum for Consumer Redressal – National Commission—Jurisdiction – Composition – Appeal. State Commission - Jurisdiction – Composition – Appeal
15	2	4th and 5th units revision

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Soft skills: Introduction-meaning-Importance– Attributes regarded as soft skills- Soft skills: Social Skill
2	1	Thinking skills – Negotiating skills – Exhibiting soft skills – Identifying soft skills –
3	1	– Improving soft skills – Train oneself – Practicing soft skills – Measuring attitude.
4	1	Knowing Yourself: meaning – Importance of knowing yourself –
5	1	Process of knowing yourself – SWOT analysis – Benefits of SWOT analysis.
6	2	Time Management: Features of time – Three Secrets of Time Management
7	2	Time management Matrix – Effective Scheduling -Grouping of activities – Five steps to Successful Time Management- Time Wasters

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Five steps to Successful Time Management- Time Wasters
9	1	revision
10	4	Group Discussion, Etiquette and Manners Group Discussion: Meaning-Importance of Group Discussion -Characters tested in GD -Tips on GD .
11	4	Types of GD- Skills required in GD - Consequences of GD GD etiquette.
12	4	Areas to be concentrated while preparing for a GD Non-verbal communication in GD.
13	4	Etiquette: Meaning- Benefits of Etiquette – Personal Etiquette, Business Meeting Etiquette and Social Etiquette.
14	4	Manners: Meaning - Poor manners noticed in youth - Importance of good manners - Practicing good manners – Manners to get respect from others.
15	4	Revision

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Group discussion - meaning- importance
2	4	Characters tested in GD- Tips on GD
3	4	Types of GD
4	4	Skills required in GD
5	4	Essential elements of GD
6	4	Non- Verbal communication in GD
7	4	Etiquette - Meaning- Benefits

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Manners- meaning- poor manners
9	1	Revision
10	5	Career Planning- benefits
11	5	Myths of Career planning
12	5	Resume- meaning
13	5	Types of resume
14	5	CV writing Tips
15	2	Revision

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Formation of a Company - Promotion - Promoter, Functions of a Promoter - Incorporation
2	2	Documents of Companies - Memorandum of Association - Definition
3	2	Clauses, Provisions and Procedures for Alteration
4	2	Articles of Association - Definition, Contents, Provisions and Procedures for Alteration-Distinction between Memorandum and Articles of Association .
5	3	Prospectus - Contents
6	3	Statements in Lieu of Prospectus. Share Capital
7	3	Types – Provisions of Alteration

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	conversion - Buyback of Shares and Commencement of Business.
9	3	Revision
10	4	Management of Companies -Directors –Independent Director
11	4	Women Directors - Appointment, Qualification
12	4	Remuneration, Rights, Responsibilities and Liabilities
13	4	Company secretary - definition - appointment - dismissal - qualification - duties & liabilities
14	4	Meetings - Statutory-Annual, Extra ordinary and Board Meetings, Agenda - Quorum - Proxy - Resolutions - Types - Minutes.
15	4	Revision

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ACM301 : BUSINESS CORRESPONDENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business Correspondence- Meaning, Need, Functions, Business letter- Meaning, Types, Importance, Advantages of business letters.
2	1	Essentials of Good / Effective business letter, Structure of business letter, Types of business letter layout- Revision
3	2	Business enquiries and replies - Credit and status enquiries - Placing and fulfilling orders
4	2	Complaints and adjustments - Collection letters - Secular letters - Sales letters
5	2	Application for employment - References - Testimonials - Letters of appointment - Confirmation - Promotion - Retrenchment and Resignation
6	3	Bank correspondence - Meaning - Elements of a good Bank Correspondence - Types of Bank correspondence
7	3	Insurance correspondence - Meaning and principles of insurance - Life insurance - Fire insurance - Marine insurance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Specimen letters - Agency correspondence - Meaning - Kinds of agent - Stages of agency correspondence - Correspondence With share holders and directors
9	3	Revision Units 1, 2, 3
10	4	Office correspondence - Meaning - Features of report - Preparation of a Report - Styles - Types - Agenda - Meaning and writing agenda
11	4	Minutes of Meeting - Meaning - Types of memorandum - Elements and characteristics - Difference between memorandum and layout
12	4	Office order - Circular - Meaning - Occasion - When circular are sent and Characteristics - Types - Office circular - Notes
13	5	Fax - E-mail - Meaning - Features - Disadvantages - Video conferencing
14	5	Components - Multipoint video conference - Internet - Websites and their use in business
15	5	Revision Unit 4, 5

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM408P : CORPORATE ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valuation of Goodwill and Shares Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill-Methods-Average profit method-Weighted Average.
2	1	Super profit method-Annuity method-Capitalization Method. Shares-Introduction-Meaning-Definition-Need.
3	1	Factors affecting valuation of shares-Methods-Net asset method-Yield method-Fair value method.
4	2	Alteration of Share Capital and Internal Reconstruction Introduction-Meaning-Different kinds of alteration of share capital-Theory
5	2	Different kinds of alteration of share capital- Problems-Consolidation - Sub-Division. Share to stock and stock to share.
6	2	Capital reduction-Procedure for reduction of share capital
7	3	Amalgamation, Absorption and External Reconstruction Amalgamation-Introduction-Meaning (Accounting Standard 14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase-Computation of Purchase Consideration.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lump sum method-Net payment method-Net asset method-Intrinsic value method-Absorption-Meaning-Methods- Net payment method-Net asset method-Intrinsic value method.
9	3	External Reconstruction-Introduction-Meaning-Methods-Lump sum method-Net payment method(Intercompany holding excluded).
10	4	Holding Companies Holding Company-Introduction-Meaning-Definition-Subsidiary Company-Meaning-
11	4	Capital Profit-Revenue profit-Minority Interest-Goodwill/Capital reserve-Unrealized profit-
12	4	Computation of consolidated balance sheet (As per Revised Schedule VI).
13	5	Bank Accounts Introduction-Meaning-Business of banking companies-Legal requirements.
14	5	Preparation of profit and loss accounts (Form ‘B’ of Schedule III)
15	5	Balance Sheet (Form ‘A’ of Schedule III).

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Formation of a Company - Promotion -
2	2	Promoter, Functions of a Promoter
3	2	Incorporation .
4	2	Documents of Companies
5	2	Memorandum of Association -
6	2	Definition, Clauses,
7	2	Provisions and Procedures for Alteration

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Articles of Association -
9	2	Revision
10	2	Definition, Contents,
11	2	Provisions and Procedures for Alteration, - Distinction between Memorandum and Articles of Association .
12	2	Provisions and Procedures for Alteration,
13	2	Distinction between Memorandum and Articles of Association .
14	2	Slip test
15	2	Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM409T : BANKING LAW AND PRACTICE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to bank - meaning, Definition, Classification of bank . Types of banks
2	1	Function and services of banks , commercial banks, universal banking, central banking.
3	1	Credit control measures, EXIM , deposit insurance and credit guarantee corporation.
4	2	Negotiable instruments- cheque, essential of a cheque, crossing of a cheque, general crossing and special crossing.
5	2	Payments of cheque, collection of cheque, endorsement.
6	2	Debit card, credit card ,green cards , and smart card.
7	3	Banker and customer Relationships and Types of customer-Banker , Customer Meaning , general and special Relationship between banker and customer.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Opening of current account, savings, Recurring, Fixed Deposit accounts, special types of accounts, minor,lunatics, partnership firm, joint stock company and Non trading Accounts.
9	123	Revision
15	45	Revision
10	4	NABARD, RRBs and SHGs.- objectives of NABARD, Features of NABARD and Functions of NABARD
11	4	Co- operative Banks , RRBs , contributions to social and Rural development, micro credit (SHGs).
12	5	Innovations of Banking Technology- E_ Banking, Internet Banking, Telephone Banking, Mobile Banking
14	5	Indian Financial Network, customer Grievences Reddressal And ombudsman- Core Banking System, Electronic clearing services. (ECS).
13	5	Home Banking, RTGS, NEFT.

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LESSON PLAN

Name of the Staff	**NIRMAL RAJ S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AECM403S : INDIAN ECONOMY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Economic Growth and Economic Development.
2	1	Concept and Difference -Features of a Developing Economy .
3	1	Determinants –Concept and Difference -Features of a Developing Economy
4	2	National Income National Income- Concepts-Estimates of National Income – Methods of Calculating National Income
6	2	Structural Changes in Structural Changes in Indian Economy As Seen
5	2	Difficulties in the Calculation of National Income – Causes for Slow Growth of National Income
7	3	Problems of the Indian Economy Major Problems of the Indian Economy Poverty - Inequality -unemployment.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Present status of Indian agriculture-Food Self-sufficiency and Food Security in India
9	3	Measures to Reduce Poverty –Employment Generation Schemes.
10	4	Industrial Sector Industrialization -Role-Pattern-Effects of industrialization-Large scale industries-Iron and Steel industry.
11	4	Cotton industry-Sugar industry-Cement industry-Petrol chemical industry-Automobile industry-Growth of IT industry in India .
12	4	Role of Small Scale industries in India-SIPCOT-TIDCO-SIDCO-TIIC-DIC .
13	5	Infrastructure for Economic Development Infrastructure –Concept-Recent measures to develop Infrastructure
14	5	Energy-Classification of Energy-Communication
15	5	Health-Education

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AECM403S : INDIAN ECONOMY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Economic growth and Economic Development
2	1	Economic growth and its concepts, Economic development and its concepts deference between Economic growth and Economic development
3	1	Features of a Developing Economy , Determinants of Development and Growth Obstacles to Economic Development.
4	2	National Income Meaning of National Income Concepts, Estimates of National Income
5	2	Methods of Calculating National Income , production method, expenditure method and income method and Difficulties in the Calculation of National Income
6	2	Causes for Slow Growth of National Income , and its problems into the economy such as, population pressure, depends on agriculture, lack industrial developments. Structural Changes in Indian Economy As Seen in the National Income Data. (revision)
7	3	Problems of the Indian Economy. major problems of Indian Economy. Poverty and its defects into the economy. what is poverty, meaning poverty. types of poverty. causes of poverty.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Inequality, what is inequality and its effects into the economy. Unemployment, what is unemployment and types of unemployment.
9	3	Present status of Indian agriculture, Food Self-sufficiency and Food Security in India - Measures to Reduce Poverty – Employment Generation Schemes.
10	4	Industrial Sector, what is industrial sector and it meaning Industrialization -Role and Pattern of Industrialization and its Effects of industrialization
11	4	Large scale industries and its role on the economic development. Iron and Steel industry-Cotton industry-Sugar industry-Cement industry-Petro chemical industry-Automobile industry
12	4	Growth of IT industry in India, what is small scale industries and its economic development Role of Small Scale industries in India SIPCOT-TIDCO-SIDCO-TIIC-DIC . (revision)
13	5	Infrastructure for Economic Development definition and meaning of Infrastructure. concepts of Infrastructure. role of Infrastructure in economic development current situation Infrastructure in india
14	5	Recent measures to develop Infrastructure. budget allocation to develop Infrastructure
15	5	Energy- what is energy - renewable energy non renewable energy. -Classification of Energy-Communication- Health-Education. present status of inidan health as well as education (revision)

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LESSON PLAN

Name of the Staff	**VIJAYA SANKAR M Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ASCM301Q : BUSINESS STATISTICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data – Classification and Tabulation of Statistical data.
2	1	Frequency distribution: Simple and Cumulative. Measures of Central value: Arithmetic Mean,
3	1	Median, Mode, Geometric Mean and Harmonic Mean
4	2	Measures of Dispersion : Range , Quartile Deviation, Mean Deviation
5	2	Standard Deviation, combined Standard Deviation and coefficients of variation
6	2	Measures of skewness - Karl Pearsons coeffients of skewness - Bowley's Coefficints of skewness
7	3	Correlation: Karl Pearson's coefficient of correlation, Spearman's rank correlation coefficient .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Concurrent deviation method. Regression analysis: Simple regression equations.
9	4	Index numbers – Uses of index Numbers – Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers – Simple Aggregative Method
10	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices
11	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
12	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly)
13	5	Least Square Method (Fitting of straight line). Measurement of Seasonal Variation: Method of Simple Averages
14	5	Ratio-to-trend Method – Link Relative Method.
15	0	Revision and test conducted for unit 4 and 5

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LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM306Q : PRINCIPLES OF MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning, Definition, Functions of Management. Managerial skills, levels of management, roles of manager, Management as a Science or Art
2	1	Approaches to Management
3	1	Contribution to management by F.W.Taylor, Henry Fayol, Elton Mayo, Peter F. Drucker and C. K. Prahalad
4	2	Planning – Meaning, Definition, importance, process, types, methods (Objectives- Policies
5	2	Procedures - Strategies &Programmes). Obstacles to effective planning.
6	2	Decision making – Steps, Types, Decision Tree.
7	3	Organization - Importance - Principles of Organisation. Delegation & Decentralization – Departmentation - Span of Management.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Organizational structure: line & staff and functional - organizational charts and manual-making organizing effective-Staffing-recruitment -selection-Training, promotion and appraisal.
9	0	revision
10	4	Function of directing - importance.
11	4	Motivation - Theories of motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques. Communication
12	4	Function - Process - Barriers to effective communication.
13	4	Leadership-Definition-Theories
14	4	approach to leadership-styles of leadership-Types
15	0	revision

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LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM511Q : COST ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO COSTING METHODS-COSTING METHODS-MEANING,IMPORTANCE
2	1	OBJECTIVES OF COST ACCOUNTINGS ,COST ACCOUNTING V/s FINANCIAL ACCOUNTING
3	1	PREPARATION OF COST SHEET, RECONCILIATION OF COST.
4	2	MATERIAL AND LABOUR COSTING MATERIAL CONTROL-MEANING,OBJECTIVES-NEED-ADVANTAGES.INVENTORY CONTROLS
5	2	ITS TECHNIQUES-STOCK LEVEL AND EOQ-METHODS OF PRICING MATERIAL ISSUES-FIFO-LIFO-HIFO METHODS
6	2	LABOUR COSTING AND CONTROLS-LABOUR TURN OVER-IDLE TIME-OVER TIME-REMUNERATION-TIME RATE RATE AND PIECE RATE-INCENTIVE-HALSEY AND ROWAN PLANS
7	3	JOB AND BATCH COSTING JOB COSTING MEANING, PREREQUISITES, JOB COSTING PROCEDURES,FEATURES

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	OBJECTIVES,APPLICATION,ADVANTAGES AND DISADVANTAGES OF JOB COSTING. BATCH COSTING: MEANING, ADVANTAGES
9	3	DISADVANTAGES, DETERMINATION OF ECONOMIC BATCH QUANTITY. COMPARISON BETWEEN JOB AND BATCH COSTING-PROBLEMS
10	4	PROCESS COSTING INTRODUCTION, MEANING AND DEFINITION,FEATURES OF PROCESS COSTING, APPLICATIONS
11	4	COMPARISON BETWEEN JOB COSTING AND PROCESS COSTING,ADVANTAGES AND DISADVANTAGES
12	4	TREATMENT OF NORMAL LOSS,ABNORMAL LOSS AND ABNORMAL LOSS,REJECTS AND RECTIFICATION-JOINT AND BY-PRODUCTS COSTING-PROBLEMS UNDER REVERSE COST METHODS
13	5	CONTRACT COSTING MEANING,FEATURES OF CONTRACT COSTING,APPLICATION OF CONTRACT
14	5	SIMILARITIES AND DISSIMILARITIES BETWEEN JOB AND CONTRACT COSTING
15	5	PROCEDURE OF CONTRACT COSTING,PROFIT ON INCOMPLETE CONTRACTS,PROBLEMS

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LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM616Q : MANAGEMENT ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management Accounting: Meaning, Definition, Objectives, Nature and scope
2	1	Role of Management Accounting – Relationship between financial accounting
3	1	Relationship between management accounting
4	1	Relational between cost accounting and Management Accounting
5	1	Analysis of Financial statements: Type of analysis
6	1	methods of financial analysis problem on comparative statements analysis
7	1	common size statements analysis and trend Analysis.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Marginal costing – definition, features
9	5	advantages and limitation
10	5	break even analysis, B.E.P. (in units), (in rupees), Brake even ratio
11	5	break even point
12	5	Uses of Brake even point
13	5	Applications of Margin Coasting
14	5	MOS, Contribution, required sales, required sales to earn a disyar profit, Variable cast and Fixed cast
15	5	Margin of safety - Margin of safety ratio and Its Users

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LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM620A : QUANTITATIVE TECHNIQUES FOR BUSINESS DECISION**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Linear programming: Introduction- Meaning- Importance-Graphical method
2	1	Simplex method-Application of simplex technique
3	2	Inventory models: General concepts and definitions-Various cost concepts
4	2	The technique of inventory control-EOQ models
5	3	Transportation Model: Definitions-Formulation and solution of Transportation models-North west corner
6	3	least cost method - VAM (Vogel's Approximation Model)
7	3	Assignment model - Definitions- Formulation and solution of Assignment models

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	simplex and Hungarian method (Simple problems).
9	3	Revision for I - CIA
10	4	Queuing theory: Meaning - Objectives - Limitations-Elements of queuing system
11	4	Queuing models
12	5	Network Analysis: Meaning- Importance- PERT
13	5	CPM
14	5	PERT-CPM (Problems)
15	5	Revision for II- CIA

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM512P : HUMAN RESOURCE MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	IIntroduction to Human Resources Management CYCLE 1 Human Resources Management – introduction, Meaning and definition, Nature, Scope and Objectives, Importance of Human Resources Management.
2	1	Functions of Human Resources Management - Qualities and Role of HR Manager - Problems and Challenges of HR Manager. Human Capital Management (HCM) – meaning – revision.
3	2	Human Resource Planning Human Resource Planning – Definition, Need and Importance, HRP Process, Problems and Barriers to HRP, HRP Effectiveness.
4	2	Job Analysis – meaning and definition, uses, process and aspects of job analysis. Job Description and Job Specification.
5	2	Job Design – meaning and definition, factors affecting job design and methods –work simplification, job rotation, Job Enrichment and job enlargement.
6	3	Recruitment and Selection:Recruitment – Meaning and Definition, Objectives Sources Of Recruitment, Process, Methods, and Recruitment Practices In India.
7	3	Selection – meaning and definition, process, Application Blank, Interviews,. Revision.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Training And Development - Meaning – Nature, Principles, importance and eeds of Training,
9	1	Revision of 1st, 2nd & 3rd units.
10	4	Process of training, Inputs And Gaps In Training – Training And Development As Source Of Competitive Advantage –
11	4	Methods Of Training, Evaluation Of Effectiveness Of Training Programme, Making The Training Effective-HR Culture In MNCs.
12	5	Performance and Potential Appraisal- meaning, purpose, process and methods - Traditional methods.
13	5	Modern Methods of performance appraisal and making performance appraisal more effective.
14	5	Potential Appraisal - Meaning, objectives and how to evaluate employee potential.
15	2	4th and 5th units revision

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM618 : PRACTICAL AUDITING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing - Meaning – Definition – Objectives – Scope – Advantages, Limitations - Distinction between Accounting and auditing
2	1	Difference between Auditing and Investigation, materiality in auditing, evidence – audit techniques
3	1	classification as to methods of approach to work – types and conduct of audit
4	2	Audit planning – audit engagement letter - factors considered before commencing a new audit
5	2	audit programme, audit files, audit note book, working papers – vouching of cash and trading transaction – internal check – internal control – internal audit
6	3	Verification and valuation of assets and liabilities – meaning – objectives of verification and vouching – classifications of asset
7	3	classifications of asset – importance of valuation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	difference between verifications and valuation – verification and revaluation of liabilities
9	1	Revision 1
10	4	Audit of limited companies – necessity of company Audit.Qualification and disqualifications of auditors – appointment of auditors
11	4	ceiling on numbers of audits, remuneration of auditors, removal of auditors.Powers, duties and liabilities of a company auditor. Special audit U/S 233A
12	4	powers of central government, powers and duties of special auditors, contents of special audit report.
13	5	Investigation – scope – objects, procedures followed in investigation – investigation under the company act – powers of inspector's .EDP systems – Characteristics
14	5	comparison of manual and EDP systems – features of auditing through computer system – computer based accounting – features of CAAT – uses of CAAT.
15	2	Revision 2

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM515A : INNOVATION MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Innovation- Introduction- Definition-nature- Importance-Early stage of Innovation-
2	1	Identifying opportunities- Differentiation- Drivers- Technology- Types of Innovation- Description of technology-marketers
3	2	Creativity- meaning- definition- need and importance-
4	2	Factors and variables - Self evaluation- SWOT analysis- Team
5	2	Group dynamics- group behaviour- leadership- creating breakthroughs
6	2	Perception - perceptual process- factors
7	3	Innovation theories-Disruptive- Networked

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	open - innovation- alternative theories
9	1	Revision
10	4	Innovation process- New product development- Criticallity of Value preposition
11	4	Differentiation - paths to market- systems of Ideation
12	5	Success and innovation- Transformation of business- Business process
13	5	Recognition- Execution strategies- Designing
14	5	Winning innovative culture- patents- Intellectual property- successful innovation case studies
15	2	Revision

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LESSON PLAN

Name of the Staff	**SAVARIMUTHU I Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM617Q : ENTREPRENEURIAL DEVELOPMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Entrepreneurship: Meaning- Nature-Importance-Theories.
2	1	Entrepreneur: Meaning-Definition-Characteristics-Qualities-Types and Roles of an Entrepreneur-Entrepreneur vs. Intrapreneur-Factors Promoting an Entrepreneur.
3	1	Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Role of entrepreneurs in India's Economic Development.
4	2	Entrepreneurship Development Programme: Meaning-Needs-Objectives –Course Contents and Curriculum.
5	2	Phases of EDP-Problems and Constraints of EDP- Organisations providing Entrepreneurship Development Programmes.
6	3	New Venture: Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques-Project Identification-Project Selection.
7	3	Procedures to Start a New Venture.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Project : Meaning- Types-formulation of Project report -Project Appraisal- Network Analysis.
9	3	Revision of 1,2 & 3 units
10	4	Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance.
11	4	Various Institutions supporting Entrepreneurial growth.
12	4	Incentives and Subsidies: Meaning-Needs-Incentives and Subsidies available to Entrepreneurs0– DIC- Industrial Estates
13	5	Introduction- Classification of Enterprises- Memorandum of MSMEs-Registration of MSMEs- MUDRA Scheme, Prime Minister’s Employment Generation Programme (PMEGP).
14	5	STAND-UP INDIA and START-UP INDIA: Objectives-Purpose-Loan facilities available-Applying Procedures.
15	5	Revision of 4 & 5 units

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LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM514A : LOGISTICS AND SUPPLY CHAIN MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of Logistics and Supply Chain Management, Importance of Logistics and Supply Chain, Objectives of Business Logistics, Functions of Logistics Management
2	1	Supply Chain Macro Processes in a Firm, Channel Structure, Relationship Management, Channel Relationships, Logistics Service Alliances
3	1	Factors stimulating service based alliances, Various approaches to study channels, Conditions for successful supply chain relationships.
4	3	Transportation - Meaning Importance of Effective temperature system, Modes of Transportation
5	3	Transportation rates, Distance related rates, Demand related rates.
6	3	Vehicle Routing and Scheduling principles for good routing and scheduling shipment consolidation
7	3	Revision Units 1 & 3

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Principles of logistics information, Information Architecture
9	4	Application of information Technologies
10	4	Electronic Data Interchange, Personal computers, Artificial intelligence
11	4	Export system communication, Factors influencing distribution Network design
12	4	Component of customer service, Options for a Distribution network, E-Business and the distribution network
13	4	Import of E-Business of customer service, Choice of distribution network
14	4	Factors influencing Network Design decision, The capacitated plant location model
15	4	Revision Unit 4

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM619A : CUSTOM, EXCISE AND GOODS AND SERVICE TAX**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Customs and Excise Duty- customs Act 1962- objectives of customs Act,Levy and collection of customs Duty , classification of Goods.
2	1	Goods Exempted from customs Duty, searches, seizures, confiscation and penalties. Central Excise Duty 1944, Nature of Excise Duty.
3	1	Levy and collection of Excise Duty, Types of Excise Duty, Valuation of Goods, Clearance of goods, Clearance of samples, Registration and Exemptions from Registration.
4	2	Introduction to Goods and service Tax- meaning, History of Goods and service tax , Features, objectives, challenges.
5	2	Types , SWOT(Strength, weakness, opportunities, and Threats of Goods and service tax) scope of Goods and service tax.
6	2	Difference between indirect Tax and Goods and service tax, advantages and disadvantages of Goods and service tax, Dimensions of Goods and service tax, effect of Goods and service tax in Indian economy, Impact of Goods and service tax and its implications.
7	3	Goods and service tax Registration- meaning, Importance, Types, procedures for Resident and Non Resident.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Application process and Enrollment process under Goods and service tax, Documents Required, penalties, cancellation of Registration Revocation of cancellation of Registration.
9	123	Revision
10	4	Levy and collection of Goods and service tax- supply ,meaning, place of supply, Time of supply.
11	4	Value of supply, mathos of valuation and Goods and service of Exports.
12	5	Assessment, Returns and Refund of Goods and service Tax- Assessment, meaning, Types, Accounts and other Records,period of Retention of Accounts.
13	5	Returns, Furnishings of details of outward supply, Furnishings of Returns,First Returns, claim of input tax credit and provisional Acceptance thereof,
14	5	Matching and Revesal and Reclaim at Reduction in Output tax liability, Annual Return and Final Return, payments of Goods and service tax, TDS,and TCS Under Goods and service tax, Refund of Goods and service Tax.
15	45	Revision

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM513S : RETAIL MARKETING MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Retailing -meaning -Definition -chacteristics - Importance -Function -Types of Retailer.
2	1	Types of Retailing Formats-Product Retailing vs service Retailing -Retailing Environment
3	2	Merchandise Management – Definition, key areas – phases in developing
4	2	Merchandise plan – Methods of planning and calculating inventory level –
5	2	Basic stock method, percentage variation method, week's supply method and stock to sales method – merchandiser's skill and profile.
6	3	Retail location - factors affecting Retail location decision – site location and lay out - factors affecting site location and lay out
7	3	Steps in selecting site. Store design – interiors and exteriors.Retailing strategies – differentiation strategies – growth strategies

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expansion strategies – pricing strategies. Meaning of logistic and supply chain management- issues of storage and warehouse facility.
9	123	Revision
10	4	Retailing promotion – definition – promotional objectives – SMARRTT objectives – approaches to promotional budget
11	4	Promotional advertising – sales promotion objectives and types- personal selling.
12	5	Meaning and definition of IT – advantages and limitations of IT in Retail trade – competitive advantage of using IT – capturing and transmitting data at point of sale
13	5	Systems for business communication and exchanging data – merchandise reordering system – E - Retailing – merits – systems of E - Retailing – kinds of retailers engaged in E - commerce –
14	5	Future trends – smart cards – E-cash - Multimedia Kiosk – Customer-specific offers – Electronic body scanners – E-Tailing in India.
15	45	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM616Q : MANAGEMENT ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management accounting-meaning, definition, role of an management accountant, difference between the financial accounting, cost accounting and management accounting.
2	1	Tools for financial statement-comparative statement-commonsize statement, trend and analysis.
3	2	Ratio analysis, meaning, definition, uses of ratio analysis, advantages and limitation of ratio analysis.
4	2	Calculation of Liquidity ratios, Profitability ratios and Solvency ratios. Meaning and Definition of Fund Flow Statement –Uses and Limitations of Fund Flow Statement –Differences between Cash Flow Statement and Fund Flow Statement -Procedure for prep...
5	3	Statement of changes in Working Capital –Statement of Funds from Operations –Statement of Sources and Applications of Funds –Problems. Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement –Limitations of Cash Flow Statemen...
6	3	Procedure for preparation of Cash Flow Statement –Cash Flow from Operating Activities –Cash Flow from Investing Activities and Cash Flow from Financing Activities –Preparation of Cash Flow Statement according to IAS-7 (Indirect Method Only).
7	0	revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Meaning and definition of budget - essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control (sums)
9	4	classification of budgets-on the basis of time-on the factors of production (sums)
10	4	on the basis of flexibility–on the basis of functions-zero based budgeting -advantages and limitations of budgetary control(sums)
11	4	preparation of production, sales, materials, material purchase, production cost, cash and flexible budgets(sums)
12	5	Marginal costing – definition, features, advantages and limitation sums
13	5	break even analysis and break- even point sums
14	5	margin of safety. sums
15	0	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM514A : LOGISTICS AND SUPPLY CHAIN MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of logistics and supply chain management- importance of logistics and supply chain managemet - objective of business logistics.
2	1	functions of logistics management- supply chain macro process of a firm - channel structure- relationship management
3	1	channel relationship management- logistical alliance services- factors - stimulating based alliances- various approaches to study channels - conditions for successful supply chain relationships.
4	2	storage- functionality and principles- strategic storage warehouse benefits- economic benefits & service benefits
5	2	Types of Warehouses, Functions of Public Warehouses, Material Handling Consideration, Space Layout
6	2	Types of Layout for Order Picking, Area System, Storage Equipment Choice, Movement Equipment Choice, Fully Mechanised Equipment.
7	3	Importance of effective transportation system, Modes of Transportation, Transportation Rates,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Distance Related Rates , Demand Related Rates , Vehicle Routing And Scheduling , Principles For Good Routing And Scheduling , Shipment Consolidation
9	0	revision
10	4	Principles of Logistics Information, Information Architecture, Application of Information Technologies
11	4	Electronic Data Interchange, Personal Computers, Artificial Intelligence or Expert System – Communication, Factors Influencing Distribution Network Design,
12	4	Component of Customer Service, Options for a Distribution Network, E – Business and the Distribution Network, Impact of E – Business on Customer Service, Choice of Distribution Network, Factors Influencing Network Design Decision, The Capacitated Pla...
13	5	Understanding and Managing the Supply Chain risk, Managing the Supply Chain as a Network
14	5	Seven major business transformations, Implication for tomorrow’s Logistics Managers, Emerging mega trends, The Multi-Channel Revolution,
15	0	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM619A : CUSTOM, EXCISE AND GOODS AND SERVICE TAX**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Customs act 1962- Objectives of Customs Act , Levy and collection of Customs duty , classification of goods , Goods Exempted from Customs duty, Searches ,seizures, confiscation and penalties.
2	1	Central excise duty 1944- Nature of excise duty, levy and collection of excise duty -
3	1	Type of excise duty , valuation of goods- clearance of goods- clearance of samples- registration and exemption from registration.
4	2	Goods and Service Tax – Meaning, History of Goods and Service Tax, Features, Objectives, Challenges, Types – SWOT (Strength, Weakness, Opportunities, and Threats of Goods and Service Tax),
5	2	Scope of Goods and Service Tax - Difference between Indirect Tax and Goods and Service Tax - Advantages and Disadvantages of Goods and Service Tax – Dimension of Goods and Service Tax
6	2	Effects of Goods and Service Tax in Indian Economy – Impact of Goods and Service Tax and its Implication.
7	3	Meaning, Importance, Types, Procedure for Resident and Non-Resident – Application Process and Enrolment process under Goods and Service Tax

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Documents required – Penalties
9	3	Cancellation of Registration – Revocation of Cancellation of Registration. REVISION
10	4	Supply – Meaning, Place of Supply, Time of Supply,
11	4	Value of Supply, Methods of Valuation
12	4	Goods and Service Tax on Exports.
13	5	Assessment – Meaning and types – Accounts and Other Records – Periods of Retention of Accounts. Returns
14	5	Furnishings of details of Outward Supply – Furnishing of Returns – First Return – Claim of Input tax credit and Provisional Acceptance thereof – Matching and Reversal and Reclaim at Reduction in Output tax liability
15	5	Annual Return and Final Return. Payments of Goods and Service Tax –TDS and TCS under Goods and Service Tax – Refund of Goods and Service Tax. REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM511Q : COST ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	costing meaning - definition - objectives - importance - costing methods - advantages and limitations.
2	1	difference between cost and financial accounts - reconciliation - format of cost sheet - meaning of material and wages.
3	1	labor and office - selling expenses - working progress - opening and closing cost sheet - cost sheet problems
4	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques
5	2	Stock levels and EOQ- minimum & maximum, average stock level,methods of pricing, material issues.
6	2	methods of pricing material issues – FIFO – LIFO – HIFO. Labour costing and control - Labour turn over – idle time-over time-remuneration
7	3	-time rate and piece rate – Incentive system - Halsey and Rowan plans. Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. problems

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.
9	0	revision
10	4	Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages
11	4	disadvantages,treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification
12	5	Joint and by -products costing –problems under reverse cost method.Meaning, features of contract costing,
13	5	Applications of contract costing, similarities and dissimilarities between job and contract costing,
14	5	procedure of contract costing, profit on incomplete contracts, Problems.
15	0	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM616Q : MANAGEMENT ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Define management accounting ,advantage and disadvantages and scope, difference between management accounting financial accounting, difference between cost accounting and management accounting
2	1	Analysis of financial statement. Types of analysis. Methods of financial statement
3	1	Problems of comparative Staten, problems of commercial statement analysis, problems of trend analysis.
4	2	Meaning and definition of Ratio, classification of ratio. Use and limitation of ratio, types of ratio analysis.
5	2	Calculation of prafitabily ratio problems of Grass profit ratio, Net profit ratio, operating ratio, operating profit ratio.Earning per share, Retained earning ratio.
6	2	Turnover ratio, stock turnover Denver, s turnobet creditors turnover working capital turnover ratios. And Salvamcy ratios.
7	3	Fundamental statement meaning,definition use and limitation of fundflow ststement.Diffrence between cash flow and find flow statement. Preparation of fundflow statement. Statement of change in working capital, statement of find from operation. Calculatio.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Meaning and definition of cash flow statement. Limiting of cash flow statement. Provision of Indian Accounting Standard, preparation of cash flow statement. Cashflow from finical activities.
10	4	Budget and Budgetary control meaning and definition, feature of budget. Elements of succsessful budgetary control. Classification of budget.
11	4	On the basis of time on the factors of production. On the basis of flexibility. On the basis of functions.
12	4	Zero based budgeting, advantages, limitation of budgetary control. Preparation of production budget, sales budget.
13	5	Material budget, material purchase budget production budget. Problems of cash and flexible budget. Marginal costing meaning, definition, features, advantages of marginal costing.
14	5	Limitation of marginal costing. Break Even Analysis. Break Even Point and Margin of safety.
9	3	Revision of 1st, 2nd, 3rd unit.
15	5	Revision of 4th and 5th unit.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM617Q : ENTREPRENEURIAL DEVELOPMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT-I Introduction Entrepreneurship: Meaning- Nature-Importance-Theories- Entrepreneur: Meaning-Definition-Characteristics-Qualities
2	1	Types and Roles of an Entrepreneur-Entrepreneur vs.Intrapreneur-Factors Promoting an Entrepreneur - Women Entrepreneur: Concept and Definition
3	1	Problems of Women Entrepreneurs - Role of entrepreneurs in India's Economic Development
4	2	UNIT-II Entrepreneurship Development Programmes : Meaning-Needs-Objectives –Course Contents and Curriculum-Phases of EDP
5	2	-Problems and Constraints of EDP- Organisations providing Entrepreneurship Development Programmes.
6	3	UNIT-III New Venture (Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques-Project Identification
7	3	-Project Selection.- Procedures to Start a New Venture- Project : Meaning- Types-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	formulation of Project report -Project Appraisal- Network Analysis.
9	1	Revision
10	4	UNIT-IV Institutional Support and Subsidies (Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance- Various Institutions supporting Entrepreneurial growth
11	4	- Incentives and Subsidies: Meaning-Needs-Incentives and Subsidies available to Entrepreneurs
12	5	DIC- Industrial Estates UNIT V MSMED Act 2006 Introduction- Classification of Enterprises- Memorandum of MSMEs-Registrati...
13	5	MUDRA Scheme, Prime Minister's Employment Generation Programme (PMEGP), STAND-UP INDIA :: Objectives-Purpose-Loan facilities available-Applying Procedures.
14	5	START-UP INDIA: Objectives-Purpose-Loan facilities available-Applying Procedures.
15	2	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM512P : HUMAN RESOURCE MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human resource management- meaning- definition- nature- scope- objectives- functions- importance
2	1	Qualities and role of HR manager- problems and challenges of HR manager- HCM- Jobs and career in HR
3	2	Human resource planning- Need and importance-
4	2	HRP process-Problems And Barriers-HRP effectiveness
5	2	Job analysis- Job design-Job Enrichment- Job Description- Job specification
6	3	Recruitment- Selection- Meaning- nature- Definition - objectives- Sources of recruitment
7	3	Process - methods- Recruitment practices- Application blank- Interviews

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revision
9	4	Training and development- Meaning, nature, scope, need- Inputs and Gaps
10	4	Training and development-Competitive advantage- Methods of training
11	4	Evaluation of effectiveness-Training programme- making the training programme effective- HR culture
12	5	Performance- Potential Appraisal- Meaning and purpose
13	5	Process of performance appraisal- Purpose of performance appraisal
14	5	Traditional and modern methods- problems
15	2	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM514A : LOGISTICS AND SUPPLY CHAIN MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of logistics and supply chain management-importance of logistics and supply chain-objectives of business logistics.
2	1	Functions of logistics management- Supply chain macro process in a firm -Channel structure-Relationship management.
3	1	Channel Structure, Relationship Management, Channel Relationships, Logistical Service Alliances, Factors Stimulating Service Based Alliances, Various Approaches to Study Channels, Conditions for Successful Supply Chain Relationships.
4	2	Storage Functionality and Principles, Strategic Storage, Warehouse Benefits, Service Benefits of Warehousing
5	2	Types of Warehouses, Functions of Public Warehouses, Material Handling Consideration, Space Layout,
6	2	Types of Layout for Order Picking, Area System, Storage Equipment Choice, Movement Equipment Choice, Fully Mechanised Equipment.
7	3	Importance of effective transportation system, Modes of Transportation, Transportation Rates,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Distance Related Rates , Demand Related Rates , Vehicle Routing And Scheduling , Principles For Good Routing And Scheduling , Shipment Consolidation.
9	3	Revision
10	4	Principles of Logistics Information, Information Architecture, Application of Information Technologies
11	4	Electronic Data Interchange, Personal Computers, Artificial Intelligence or Expert System – Communication, Factors Influencing Distribution Network Design
12	4	, Component of Customer Service, Options for a Distribution Network, E – Business and the Distribution Network, Impact of E – Business on Customer Service, Choice of Distribution Network, Factors Influencing Network Design Decision, The Capacitated P...
13	5	Understanding and Managing the Supply Chain risk, Managing the Supply Chain as a Network ,
14	5	,Seven major business transformations, Implication for tomorrow’s Logistics Managers, Emerging mega trends, The Multi-Channel Revolution,
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM515A : INNOVATION MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Innovation - Introduction, Meaning, Definition, Concepts, Nature, Importance, Early Stage of Innovation
2	1	Identifying Opportunities - Discovering New Points of Differentiation - Innovation Drivers-state, Technology, Types of Innovations, Descriptions of Technological, Marketing and Organisation
3	2	Creativity - Meaning, Definition, Need for creativity and importance of creativity, Factors influencing creativity
4	2	Individual, Self evaluation of individual, SWOT analysis, Team, Group dynamics - Meaning, Characteristics, stages, Types
5	2	Factors affecting group behaviour and team building, Leadership - Meaning, Nature, Creating breakthroughs in innovation
6	2	Perception - Meaning, Definition, Perceptual process, Factors affecting perception and techniques to improve Perception.
7	3	Major contemporary theories, Disruptive networked - Open, Alternative theories.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Evolutionary - Uncontested - Adaptive - Green initiatives.
9	3	Revision Units 1,2,3
10	4	New product development - Criticality of the value proposition, Differentiation
11	4	Paths to market, Systems of Ideation, Experimentation & Prototyping, Innovation Labs
12	5	Transformation of Business -Business process, Recognition and execution strategies
13	5	Designing a winning Innovative culture, Patents
14	5	Intellectual property, Successful innovation case studies (any two)
15	5	Revision Units 4,5

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM620T : INVESTMENT MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Investment – Meaning – Characteristics of Investment – Investment Objectives – Importance of Investment – Investment Vs Speculation – Investment Vs Gambling
2	1	Scope of Investment Management - Important factors favourable for investment program – Investment Decision process - Stages in Investment – Investors classification – Unit Test
3	2	Security Investment – Meaning – Bonds – Features of Bonds – Types of Bonds - Preference shares – Meaning – Advantage and Disadvantages – Types - Equity shares – Meaning – Features – Advantages and Disadvantages – Types
4	2	Security Investment – Derivatives – Meaning – Types of derivative contracts – Differentiate between forward contracts and Futures contracts
5	2	Security Investment –Options – Swaps – Futures – Mutual funds – Definition – Advantage and Disadvantage Mutual Funds – Classification of Mutual Funds - Unit Test
6	3	Non Security Investment – Meaning - Government securities – Characteristics – Benefits - Life Insurance – Meaning – Principles – Types – Schemes of LIC – UTI – Objective – Schemes
7	3	Non Security Investment – Commercial Bank – Meaning – Classification - Provident fund – Meaning – Types - Post Office Schemes – Meaning - Importance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Non Security Investment – National Saving Schemes – Features – Advantage – Types - Fixed Deposit schemes – Unit Test
9	3	Revision of Units I, II & III
10	4	Risk and Return – Meaning – Causes of Risk – Classification of Risk – Methods of Minimizing Risk –Historical and Expected return – Revision
11	4	Risk and Return – Meaning –Return on Investment – Factors – Measurement of Risk - Methods – Revision
12	5	Fundamental and Technical Analysis – Meaning – Economic, Industry and Company specific Analysis.
13	5	Fundamental and Technical Analysis – Meaning – Strengths of Technical – Weakness of Technical Analysis - Tools for Technical Analysis
14	5	Differentiate between Fundamental and Technical Analysis – Charts, Supports and Resistant Level Analysis – Unit Test
15	5	Revision of Units VI & V

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM618 : PRACTICAL AUDITING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to auditing, meaning, Definition, objectives, scope, advantages, limitations, Distinctions between accounting and auditing, Difference between auditing and investigation,
2	1	Materiality in auditing, evidence, audit techniques, classification as to methods of approach to work,types and conduct of audit.
3	2	Vouching- Audit planning, audit engagement letter, Factors considered before commencing a new audit.
4	2	Audit programme, audit files, audit note book, working papers.
5	2	Working of cash and trading transactions, internal check, internal control, internal audit.
7	3	Classification of asset, importance of valuation, difference between ve verification and valuation.
6	3	Verification of valuation of asset and liabilities Meaning objectives of verification, of Valuation of asset , Revolution of assets.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	123	Revision
9	4	Audit of limited companies - meaning and introduction, necessity of company audit, qualifications and disqualification of auditor, appointments of auditor.
10	4	Ceiling on numbers of audit , remuneration of auditors, removal of auditors.
11	4	Powers , duties and liabilities of company auditors, special audit u/a 233A , powers of central government, powers and duties of special auditors, content of special audit reports.
12	5	Investigation and EDP systems - investigation scope, objects, procedure followed in investigation.
13	5	Investigation under the company act, powers of inspector , EDP systems , characteristics comparison of manual and EDP systems.
14	5	Features of auditing through computer systems, computer based accounting, features of CATT, Uses of CAAT
15	45	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM513S : RETAIL MARKETING MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Retailing -meaning -Definition -chacteristics - Importance -Function -Types of Retailer.
2	1	Types of Retailing Formats-Product Retailing vs service Retailing -Retailing Environment
3	2	Merchandise Management – Definition, key areas – phases in developing
4	2	Merchandise plan – Methods of planning and calculating inventory level –
5	2	Basic stock method, percentage variation method, week's supply method and stock to sales method – merchandiser's skill and profile.
6	3	Retail location - factors affecting Retail location decision – site location and lay out - factors affecting site location and lay out
7	3	Steps in selecting site. Store design – interiors and exteriors.Retailing strategies – differentiation strategies – growth strategies

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expansion strategies – pricing strategies. Meaning of logistic and supply chain management- issues of storage and warehouse facility.
9	123	Revision
10	4	Retailing promotion – definition – promotional objectives – SMARRTT objectives – approaches to promotional budget
11	4	Promotional advertising – sales promotion objectives and types- personal selling.
12	5	Meaning and definition of IT – advantages and limitations of IT in Retail trade – competitive advantage of using IT – capturing and transmitting data at point of sale
13	5	Systems for business communication and exchanging data – merchandise reordering system – E - Retailing – merits – systems of E - Retailing – kinds of retailers engaged in E - commerce –
14	5	Future trends – smart cards – E-cash - Multimedia Kiosk – Customer-specific offers – Electronic body scanners – E-Tailing in India.
15	45	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Economics
2	2	Law of Demand
3	2	Exeptions of Law of Demand
4	2	Why does the Demand curve slope down ward.
5	3	Properties of Indifference curve-
6	3	Properties of Indifference curve-
7	3	Budget line or Price line.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Production Function –Meaning-Definition
9	4	The Law of Returns to Scale
10	4	Types of market
11	4	Cobb-Douglas Production Function
12	5	Meaning of Cost –Cost Concepts.
13	5	Short Run Cost curves & Long run cost curves
14	5	Relationship between Average cost & Marginal cost
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**AECM202T : BUSINESS ECONOMICS - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Perfect Competition -Meaning-Definition-Features-Pricing under perfect competition.
2	1	Firm & Industry-Meaning-Difference between Firm & Industry-Equilibrium of the Firm and Industry in short run & long run.
3	1	Derivation of the Supply Curve – Market Adjustment Process – Time Element Theory.
4	2	Difference between Perfect competition & Imperfect Competition-Monopolistic Competition -Meaning -Features-Pricing & output determination.
5	2	Product Differentiation –Meaning-Methods - Selling Cost – Meaning-Types-Duopoly- Meaning -Cournot model.
6	2	Oligopoly – Meaning-Featuresl – Kinked Demand Curve – Collusion and Price Leadership.
7	3	Factor Pricing- Meaning -Marginal Productivity Theory of Distribution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theories of Rent: Ricardian Theory, Modern Theory and Quasi Rent .
9	3	Theories Of Wages: Iron Law of Wages , Wage Fund Theory.
10	4	Theories of Interest- Loanable Fund Theory-Demand for Loanable Fund & Supply OF Loanable Fund.
12	4	Theories of Profit- Dynamic Theory, Uncertainity Theory and Innovation Theory.
13	5	Welfare–Meaning - Definition-Positive Economics & Welfare Economic-Individual welfare &Social welfare.
14	5	Divergence between Individual and Social Welfare-New Welfare Economics Pareto's Welfare Criterion.
15	5	REVISION
11	4	Liquidity Preference Theory-IS & LM .

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM101Q : FINANCIAL ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Accounting-Introduction-Meaning and Definition - Types of Accounting-Accounting concepts and Conventions- Double Entry System- Accounting Rules- Journal-ledger- Trail Balance - Subsidiary Books – purchase, sales, purchase returns and sales returns book.
2	1	Subsidiary Books – cash book with single, double and triple column. Preparation of Profit and loss A/c and Balance Sheet- Advantages and disadvantages of Accounting- Uses of Financial Statement-Accounting of sole trading concern and non-trading concern.
3	2	Single Entry System- Meaning and Definition, features, Difference between Single Entry System and Double Entry System- Difference between Balance Sheet and Statement of Affairs.
4	2	Proforma for statement of affairs of profit or loss, statement of affairs, total debtors, total creditors, bills receivables and bills payable account - Net worth Method - problems.
5	2	Conversion Method problems - Preparation of Trading profit and loss A/c and statement of affairs – problems - revision.
6	3	Accounting for Non-trading concerns- Meaning of Non-trading concerns - Meaning and Definition of Income, Expenditure – peculiar items in Non-trading concerns.
7	3	meaning and treatment of peculiar items in Non-trading concerns – proforma for Receipts and Payments Account, Income and Expenditure Accounts – problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of Receipts and Payment A/c, Income and Expenditure A/c & Balance Sheet – revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Consignment- Meaning, definition, features –distinction between sales and consignment - Accounting for consignment transactions - preparation of consignment A/c - journal entries – goods sent on consignment at cost price –problems.
11	4	Accounting treatments for Normal loss and abnormal loss calculation – goods sent on consignment at invoice price – problems - revision.
12	5	Joint Venture- Meaning and Definition, features and benefits - Difference between consignment and joint venture - Difference between partnership and joint venture.
13	5	Journal entries for Joint Venture transactions – specimen ledger accounts – joint venture accounts, co – venture's capital account – problems.
14	5	Accounting for Joint Venture - when separate book for joint venture is maintained- joint venture accounts, co – venture's capital account and joint bank account – problems – revision.
15	5	Revision of 4th & 5th units.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM203T : FINANCIAL ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Average Due Date - meaning of Average due date-Uses of Average due date. Basic problems in average due date – when amount is lent in different installments and in single installment - calculation of interests
2	1	Account current- meaning, points to be remembered for counting days - methods of calculating interests – product method, interest table method, daily balance method and varying rate of interests - problems - revision.
3	2	Branch – Meaning, objectives of branch accounts - Types of branches – features of Dependent branches – difference between branch and Department - Preparation of trading account of branches under debtor system.
4	2	Preparation of trading account of branches under Stock and debtors system – journal entries – branch stock account, branch debtors account, branch expenses account, branch adjustments account, branch profit & loss account and goods sent to branch acc...
5	2	Preparation of trading account of branches under whole sale branch system and Final account systems - when goods are invoiced at cost price and selling price - revision.
6	3	Departmental Accounts – Introduction, meaning, advantages – distinction between departments and branches – Allocation of expenses – Calculation department purchase Interdepartmental transfers at cost price and Selling price.
8	4	Partnership accounts - Accounting Treatments - Admission of partner – Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems).

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Revision of 1,2,3 units.
10	4	Retirement of Partner – Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems).
11	4	Death of Partner. Adjustments Regarding profit sharing Ratio, Good will and Capital (simple problems) – revision.
12	5	Dissolution of firm – meaning - Modes of dissolution – journal entries – preparation of necessary ledger accounts – realization accounts, capital accounts and bank accounts - problems.
13	5	Insolvency of a partner – calculation of capital ratio under fixed capital method and fluctuation method - Garner Vs. Murray rule - Insolvency of all partner - problems.
14	5	Piecemeal distribution – the order of payment to be adopted while dissolving a partnership firm proportionate capital method- Maximum loss Method - problems – revision.
15	5	Revision of 4 & 5 units
7	3	Preparation of trading and Profit & Loss account of the department - Interdepartmental transfers at cost price and Selling price - revision.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Puranaanuru , Aganaanuru
2	1	Kurunthogai, natrinai, paripaadal
3	4	Pathinen keezhkanaku nulgal 1 to 9
4	4	Pathinen keezhkanaku nulgal 10 - 18
5	4	Sangakalam muchangangal
6	4	Sanga kalam ettuthogai pathuppattu
7	3	Thirukkural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran
9	5	Mozhithiran seithi segarippu neir kaanal
10	4	Aatruppadai irandu mattum
11	4	Aatruppadai adutha moondru aatrupadai
12	2	Pattinappaalai
13	2	Sirumbaanaatruppadai
14	2	Madurai kaanji
15	2	Mullaipaattu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM102T : BUSINESS ORGANISATION**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Business – Meaning – Characteristics - Objectives - Criteria for Success in Modern Business – Classification of Business-
2	1	Profession - Meaning-Distinction between Business and Profession - Social Responsibility of Business
3	2	Forms of Business Organisation-Sole Trader – Partnership firm - Definition – Meaning – Characteristics – Advantages – Limitations -
4	2	concepts of Limited Liability Partnership firm, Cooperative Societies - Joint Stock Company –Definition – Meaning – Characteristics – Advantages – Limitations -
5	2	One Man Company- Virtual Organization- Private and Public Limited Company – Government Companies – Public Utilities
6	3	Location of Industry Meaning - Theories of Location - Factors Influencing Location -
7	3	Plant Layout-Definition - Meaning – Objectives - Characteristics of Good Layout - Size of Firm

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Size of Firm- Meaning - Concept of Size - Measures of Size.
9	1	revision of 1st 2nd 3rd units
10	4	Business Combination-Definition - Meaning – Advantages and Limitations – Types of Combination
11	4	Types of Combination – Chamber of Commerce – Meaning – Advantages and functions –
12	4	Trade Associations – Features and functions. revision unit-5Multinational Corporations (MNC's) Definition - Distinction among IC, MNC, GC and TNC
13	5	Characteristics of MNC's-cultural impact of MNC's. Factors contributed for the growth of MNC's – Advantages and Disadvantages of MNC's – Control over MNC's
14	5	Organization Design and Structure of MNC, s – Relationship between Headquarters and Subsidiaries – MNC's in India.
15	2	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM204T : PRINCIPLES OF MARKETING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT –I Introduction Market- Meaning- Definition- Classification of markets. Marketing – Meaning – Definition- Evolution – Approaches - Modern marketing concepts
2	1	Marketing Mix with Extended 7Ps and 10 Ps- Meaning- Concepts - Role of Marketing in Economic Development
3	1	-Market Segmentation-Definition –Requirements –Bases for Market Segmentation. UNIT-II Product Meaning- Features-Classification of products
4	2	Product Mix- Product Innovation-New Product Development
5	2	Product Life Cycle- Branding- Meaning- Advantages and Limitations. Packaging – Meaning – Kinds
6	3	– Labeling – Meaning-Advantages and Limitation. UNIT -III Pricing Price – Meaning - Pricing- Importance - Objectives- Factors affecting pricing decisions
7	3	Pricing Policies- Procedure for price determination- Kinds of Pricing.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revision
9	4	Unit-IV Meaning-Importance-Marketing and Distribution-Middlemen in distribution - Function and Kinds of Middlemen
10	4	Agents and Merchant Middlemen-Wholesalers –Types - Services rendered by wholesalers
11	4	- Retailers- Types – Requisites – Services rendered by retailers- Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing.
12	5	UNIT-V Promotion Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
13	5	Advertising- Meaning and definition– Media – Advantages- Limitations –Advertising copy –Definition – Elements of an Advertisement copy
14	5	– Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising.
15	2	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Teaching Spelling
2	1	Story Telling
3	1	Quiz Game
4	2	Seminar
5	2	Debate
6	2	Group Discussion
7	3	Book review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	C I A
9	3	Literary Review
10	3	Film Review
11	4	Speech on Current Events
12	5	Situational Addressing
13	1	Test
14	2	C I A
15	5	Test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1. PURANANOORU - 192,183 1.2. AGANANOORU - 34,104
2	1	1.3. KURUNTHOGAI - 40,3 1.4. NATRINAI - 110,139 1.5. PARIPAADAL - 4,11
3	4	ILLAIYA VARALAARU 4.1. PATHINEN KEEZH KANAKGU NOOLGAL - ARANOOLGAL
4	4	4.1. PATHINEN KEEZH KANAKGU NOOLGAL - AGANOOLGAL, PURANOOLGAL
5	4	4.2. SANGKALANGAL - MUCHANGAL,, ETTUTHOGAI
6	4	4.2. SANGKALANGAL - PATHTHUPPATTU
7	3	THIRUKGURAL 3.1. VINAISEYAL VAGAI 3.2. PORULSEYAL VAGAI 3.3. THERINTHU SEYAL VAGAI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN 5.1. VINNAPPANGAL 5.2. KADITHANGAL 5.3. SURUKI VARAITHAL
9	5	5.4. SETHI SEGARIPPU 5.5. NERKAANAL
10	4	4..3. AATRUPADAIGAL - AATRUPADAIGAL
11	4	4..3. AATRUPADAIGAL - AGANOOLGAL,PURANOOLGAL
12	2	PATHTHUPPATTU 2.1. PATTINAPPALAI - 120,192
13	2	2.2. SIRUPANATTRUPADAI
15	2	2.4. MULLAIPPATTU
14	2	2.3. MATHURAIKANCHI - MARUTHANILA VARUNANAI

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Bharathiyar - Bharadathesam 1.2. Barathidasan-Ulagapanpattu
2	1	1.3. Vairamuththu - peiyena peium mazhai 1.4. kannadasan - Utharimainthan
3	1	1.5. Mu. Meththaa - Thesapidhavukgu Theru paadaganin Anjali
4	3	3.1. Indumathi - Kuruththu
5	3	3.2. Vinayagamoorthi - Parisu
6	5	5.1. Vuvamai ani 5.2. Eduththukattu Vuvamai ani 5.3. Solporul Vuvmai ani
7	5	5.4. Thargurippetra ani 5.5 Vallotru Migum Idam, Vallortru Miga Idam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	4.1. Mu.va. Nalvazhvu - Panpaadu
9	2	2.1. Silappathigaram - Adaikkala Kathai
10	2	2.2. Manimegalai - Chakravalakottam
11	2	2.3. Kamparaamaayanam - Vaalivathai padalam
12	3	3.3. Arinjar Anna - Sevvazhai
13	2	2.4. Manikkavasagar - Thirugothumbi 2.5. Thayumanavar - Paraparakkanni 2.6. Kuttrala Guravanji
14	4	4.2. Pothumai Oru Aram
15	4	4.3. Neenthuga

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore Elocution
12	5	Description Narration
13	5	Paragraph Writing
14	0	II CIA
15	0	FULL REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Indian Women - S. Radhakrishnan
2	1	The solitary reaper-William Wordsworth THE PURPLE DRESS -O HENRY
3	2	Effective communication Face to face communication
4	2	Basic skills for talking to people Receiving visitors
5	2	GROUP DISCUSSION preparing for interview
6	2	talking interview promotion interview
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GIVE US A ROLE MODEL -DR.A.P,J KALAM SOWALI-MAHASWETA DVI
9	3	J.R..D.'S WORDS OF INSPIRATION TO SUDTHA MURTHY
10	4	BUSINESS CONVERSATION BUSINESS PRESENTATION
11	4	SOFT SKILLS TEAM MAINTENANCE AND ROLES
12	5	STANDARD BUSINESS LETTERS RESUME WRITING
13	5	ASSIGNMENT SEMINAR GROUP DISCUSSION
14	0	II CIA EXAM
15	0	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to business economics, meaning,definition, nature and scope of business economics. And economist role, role of business economist.
2	1	Price determination, Quality and Quantity and Profit Maximization
3	1	Relationship of Business Economics and other disciplines. like Micro Economics, Macro Economics, Indian Economics, International Economics.
4	2	Demand Analysis, meaning of demand and factors influencing demand, Income, price and willingness to pay
5	2	Law of Demand, meaning and definitions, exception to the law of demand like giffen paradox, demonstration effect, fear to rise price.
6	2	Elasticity of Demand ,Types of Elasticity of Demand ,Demand Forecasting,Meaning Definition,Objectives. price elasticity, Income and Cross elasticity of demand
7	3	Indifference curve analysis, meaning of indifference curve and what is different names of indifference curve and map

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	properties of indifference curve and marginal rate of substitution
9	3	Indifference Map Budget line or Price line-, Consumer's Equilibrium Consumer Surplus .
10	4	Theory of Production, what is production and meaning of production, Factors of Production
11	4	production function and importance of production function , Input and output method
12	4	The Cobb-Douglas Production Function The Law of Variable Proportions ,The Law of Returns to Scale .
13	5	Cost functions- Meaning of cost, short run cost curves, Marginal cost Average cost
14	5	Total Cost, fixed cost, and variable cost and other cost
15	5	Relationship between average cost and Marginal cost and long run average cost curve.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Face to Face communication with customers and visitors The solitary reaper- William Wordsworth
2	1	The purple dress- O' henry (short story)
3	1	Solitary reaper (slip test)
4	1	Prose: Indian women- S.Radhakrishnan
5	5	Standard Business Letters Applying for Jobs, preparing Resumes
6	5	Writing cover letter for resumes
7	5	Revision and slip test

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA EXAMINATION
9	3	Prose: word's of inspiration to Sudha Murthy
10	3	Prose: Give us a role model Dr.A.P.J Abdul kalam
11	3	Story: Sowali Mahasweta Devi
12	4	Writing minutes of meeting Preparing agenta if meetings Business promotion and language for advertising
13	4	Communication skills with public, fellow employees, supervisor and customer Making notes of business conversation
14	4	Revision
15	4	II CIA EXAMINATION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Economics
2	2	Law of Demand
3	2	Exeptions of Law of Demand
4	2	Why does the Demand curve slope down ward.
5	3	Properties of Indifference curve-
6	3	Properties of Indifference curve-
7	3	Budget line or Price line.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Production Function –Meaning-Definition
9	4	The Law of Returns to Scale
10	4	Types of market
11	4	Cobb-Douglas Production Function
12	5	Meaning of Cost –Cost Concepts.
13	5	Short Run Cost curves & Long run cost curves
14	5	Relationship between Average cost & Marginal cost
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**AECM202T : BUSINESS ECONOMICS - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Perfect Competition -Meaning-Definition-Features-Pricing under perfect competition.
2	1	Firm & Industry-Meaning-Difference between Firm & Industry-Equilibrium of the Firm and Industry in short run & long run.
3	1	Derivation of the Supply Curve – Market Adjustment Process – Time Element Theory.
4	2	Difference between Perfect competition & Imperfect Competition-Monopolistic Competition -Meaning -Features-Pricing & output determination.
5	2	Product Differentiation –Meaning-Methods - Selling Cost – Meaning-Types-Duopoly- Meaning -Cournot model.
6	2	Oligopoly – Meaning-Featuresl – Kinked Demand Curve – Collusion and Price Leadership.
7	3	Factor Pricing- Meaning -Marginal Productivity Theory of Distribution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theories of Rent: Ricardian Theory, Modern Theory and Quasi Rent .
9	3	Theories Of Wages: Iron Law of Wages , Wage Fund Theory.
10	4	Theories of Interest- Loanable Fund Theory-Demand for Loanable Fund & Supply OF Loanable Fund.
12	4	Theories of Profit- Dynamic Theory, Uncertainity Theory and Innovation Theory.
13	5	Welfare–Meaning - Definition-Positive Economics & Welfare Economic-Individual welfare &Social welfare.
14	5	Divergence between Individual and Social Welfare-New Welfare Economics Pareto's Welfare Criterion.
15	5	REVISION
11	4	Liquidity Preference Theory-IS & LM .

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM101Q : FINANCIAL ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	According introduction, definition objective,, concept and convention,rules double column and single entry system , purchase book, sales book purchase and sales return, Cash book triple column,petty Cash book
2	1	Journals and ledger ,trail balance,final account format and final accounts problems accounting for trading concern an non trading concern
3	2	Single entry system, meaning and definition, features, advantage and disadvantages, difference between single entry system double entry system, difference between balance sheet statement of affairs
4	2	Single entry system, proforma of trading and profit and loss account and statement of affairs problem,networth methods
5	2	Conversation methods, meaning,purpose, missing items and appropriate account to find them,proforma of the missing figure problem.
6	3	Accounting for non trading concern, meaning and definition,, steps prepare income and expenditure account. Difference between receipts and payments account, difference between income and account
7	3	Proforma of income and expenditure,proforma of receipt and payment, general and special funds, preparation of receipts and payments account

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Proforma of income and expenditure account and balance sheet account problem
9	3	Revision
10	4	Consignment accounts meaning and definition, accounting for consignment transaction, importance preparation of stock valuation, problems solved
11	4	Preparation of consignment accounts,normal loss and abnormal loss calculation
12	5	Joint venture. Joint venture, meaning and definition, features and purpose,difference between partnership and joint venture account.
13	5	Preparation of Journal entries for joint venture transaction problem solving
14	5	Joint venture , separate books for joint venture is maintained problems solving
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM203T : FINANCIAL ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Average due date, meaning and uses of average due date,basic problem in average due e, calculation of the days
2	1	Calculation of the interest.Account current, meaning and definition, calculation of days, methods of calculation of interest, product method
3	1	Red ink interest method, calculation of the simple problem. Branch meaning, Types of branch, department of branch, Differences between branch and department
4	2	Preparation of trading account, preparation for branch account under debtors system,
5	2	Stock and debtors system, whole sale branch,final account system simple problem
6	2	Final account system. Department account, introduction, meaning, allocation of expenses, calculation of department purchase
7	3	Interdepartmental transfer of cost price, selling price problem

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of trading and profit and loss account of the department.
9	3	Revision for First, second and third unit
10	4	Admission and retirement partner, introduction , meaning, accounting treatment, admission of partner, retirement of partner
11	4	Death of partner, adjustment regarding profit sharing ratio
12	4	Goodwill, and capital of partner simple problem. Dissolution of partner,modes of dissolution
13	5	Insolvency of partner,Gurnee vs Murray, insolvency of all partner, peacemeal distribution
14	5	Peacemeal distribution, proportionate capital method. Maximum loss method. Simple problem
15	5	Revision forFourth and fifth unit

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DEVASENA J Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**LTC101T : TAMIL - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bharathiyar-Bharathathasam Bharathidasan ulagappan pattu
2	1	Kannadasa-Uthari mainthan Vairamuthu-Pithiya Arpadu
3	1	M.Matha Dasapithaukku oru Tharupadaganin Angali
4	3	Indumathi kuruthu
5	3	Anna Sevazhi Vinayagamoorthi parisu
6	5	UvamiAni Aduthukattu uvami Ani solporul uvami Ani
7	5	Tharkurippu Atra Ani Vallu ortru migum idam;vallu ortru miga idam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Silapathigaram Adigala kathi
9	2	Manimagalai Sakkaravalakotam
10	2	Kambaramayanam Valivathi padalam
11	2	Manikavssagar -Thirukoththumbi Thayumanavar-Parapara kanni
12	2	Kutrala kuravangi
13	4	M.V.Pnpadu
14	4	M.V.Pothumai oru Aram
15	4	MV,Neenthuga

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introducing oneself
2	2	Tenses
3	3	Tenses Usage
4	4	Role play
5	5	Small Utterances
6	2	Framing questions
7	3	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reading skill
9	3	Speaking skill
10	4	Writing skill
11	5	Grammar
12	3	Listening skill test
13	4	Speaking skill test
14	5	Writing skill test
15	5	Grammar test

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LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**CM102T : BUSINESS ORGANISATION**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business - Meaning, Characteristics, Objectives, Criteria for Success in Modern Business
2	1	Classification of Business, Profession, Meaning, Distinction between Business and Profession, Social Responsibility of Business
3	2	Sole Trader, Partnership firm, Concepts of limited liability partnership firm.
4	2	Co-Operative societies, Joint stock company-Definition, Meaning, Characteristics, Advantages, Limitations
5	2	One Man Company, Virtual Organisation, Private and Public Limited Company, Government Companies, Public utilities.
6	3	Meaning - Theories of Location, Factors influencing location, plant layout - Meaning
7	3	Plant Layout Definition, Objectives, Characteristics of Good Layout.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Size of firm - Meaning, Concept of size, Measures of Size.
9	3	Revision Units 1,2,3
10	4	Business Combination - Definition, Meaning, Advantages and limitations, Types of combination, Chamber of commerce - Meaning
11	4	Chamber of commerce advantages and functions, Trade Associations, Features and functions
12	5	MNC's - Definition, Distinction among IC, MNC, GC and TNC.
13	5	Characteristics of MNC's, Cultural impact of MNC's. Factors contributed for the growth of MNC's, Advantages and Disadvantages of MNC's
14	5	Control over MNC's, Organisation Design and structure of MNC's - Relationship between Headquarters and Subsidiaries, MNC's in India.
15	5	Revision Units 4,5

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LTC202T : TAMIL - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURANAANOORU AGANANOORU
2	1	KURUNTHOGAI, NATRINAI, PARIPADAL.
3	3	THIRUKURAL : ATHIGARAM--------VINA ISEYAL VAGAI
4	3	THIRUKURAL- ATHIGARAM------ PORUL SEYALVAGAI
5	3	THIRUKURAL-- ATHIGARAM --------THERINTHU SEYAL VAGAI
6	4	PATHINEN KIZHKANNAKKU NOOLGAL ILLAKIYA VARALARU
7	4	SANGA KAALAM ,, MOONDRU SANGANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN, VINNAPPANGAL,, KADITHANGAL
9	5	SURUKI VARAITHAL, SEITHI SEGARIPPU,,, NER KAANAL
10	2	PATTINA PAALAI 120 TO 192 LINES
11	2	SIRUPAAN AATRUPADAI: KADAIYEZHU VALLALGAL
12	2	PATHUPAATIL MADURAI KANCHI
13	2	MULLAI PAATTU PASARAI IYALBU
14	4	AATRUPADAI NOOLGAL
15	4	AATRUPADAI NOOLGAL

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**LEC202T : FOUNDATION COURSE - ENGLISH - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INDIAN WOMEN, SOLITARY REAPER
2	1	THE PURPLE DRESS
3	2	IMPORTANCE OF EFFECTIVE COMMUNICATION IN BUSINESS CONTEXTS, FACE TO FACE COMMUNICATION WITH CUSTOMERS AND VISITORS, BASIC SKILLS FOR TALKING TO PEOPLE IN TRANSNATIONAL SITUATIONS
4	2	RECEIVING VISITORS,BOOKING HOTEL ACCOMMODATION, MAKING SMALL TALKS AND TELLING STORIES, GROUP DISCUSSIONS
5	2	PREPARING FOR INTERVIEWS , TAKING INTERVIEWS , PROMOTION INTERVIEWS
6	3	GIVE US A ROLE MODEL - A.P.J. ABDUL KALAM
7	3	SOWALI- MAHAWSETA DEVI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	J.R.D'S WORDS OF INSPIRATION TO SUDHA MURTHY
9	4	PREPARING AGENDA FOR MEETINGS, WRITING MINUTES OF MEETINGS, MAKING NOTES FOR BUSINESS PRESENTATIONS BUSINESS PROMOTION AND LANGUAGE FOR ADVERTISING
10	4	NEGOTIATING, COMMUNICATION SKILLS WITH PUBLIC,FELLOW EMPLOYEES, SUPERVISORS AND CUSTOMERS
11	4	SOFT SKILLS FOR TEAM BUILDING, TEAM maintenance and task maintenance, BRAINSTORMING AND CONSENSUS- MAKING COMMUNICATION
12	5	STANDARD BUSINESS LETTERS
13	5	APPLYING FOR JOBS AND PREPARING resumes
14	5	WRITING COVER LETTERS FOR RESUME
15	5	WRITING COVER LETTERS FOR RESUME

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LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**AEBM101T : BUSINESS ECONOMICS - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to business economics, meaning,definition, nature and scope of business economics. And economist role, role of business economist.
2	1	Price determination, Quality and Quantity and Profit Maximization
3	1	Relationship of Business Economics and other disciplines. like Micro Economics, Macro Economics, Indian Economics, International Economics.
4	2	Demand Analysis, meaning of demand and factors influencing demand, Income, price and willingness to pay
5	2	Law of Demand, meaning and definitions, exception to the law of demand like giffen paradox, demonstration effect, fear to rise price.
6	2	Elasticity of Demand ,Types of Elasticity of Demand ,Demand Forecasting,Meaning Definition,Objectives. price elasticity, Income and Cross elasticity of demand
7	3	Indifference curve analysis, meaning of indifference curve and what is different names of indifference curve and map

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	properties of indifference curve and marginal rate of substitution
9	3	Indifference Map Budget line or Price line-, Consumer's Equilibrium Consumer Surplus .
10	4	Theory of Production, what is production and meaning of production, Factors of Production
11	4	production function and importance of production function , Input and output method
12	4	The Cobb-Douglas Production Function The Law of Variable Proportions ,The Law of Returns to Scale .
13	5	Cost functions- Meaning of cost, short run cost curves, Marginal cost Average cost
14	5	Total Cost, fixed cost, and variable cost and other cost
15	5	Relationship between average cost and Marginal cost and long run average cost curve.

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**ISABELLA**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**LEC101T : FOUNDATION COURSE - ENGLISH - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Character is Destiny - S. Radha Krishnan All the Word's a Stage - William Shakespeare
2	1	The Never Never Nest- Cedric Mount
3	2	Understanding Communication Greeting and Introducing Making Request Agreeing and Disagreeing
4	2	Seeking and Giving Permission Persuading and Debating Sounds and symbols in English
5	2	Effective use of Intonation Telephone Manners in business situation Handling customer orders and Enquiries Handling complaint calls
6	5	Note-Making Report- Writing
7	5	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	1CIA Examination
9	4	Effective listening Understanding the Audience Perceptual clarity
10	5	Publicity literature Taking part in teleconferences
11	3	The gift of the magi- O'Henry (short story)
12	5	Teleconference Tele-interview
13	5	Slip test
14	5	Revision
15	5	II CIA EXAMINATION

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LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**CM204T : PRINCIPLES OF MARKETING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Market- Meaning- Definition- Classification of markets. Marketing – Meaning – Definition- Evolution – Approaches - Modern marketing concepts - Marketing Mix with Extended 7Ps and 10 Ps
2	1	Meaning-Concepts - Role of Marketing in Economic Development-Market Segmentation-Definition –Requirements – Bases for Market Segmentation.
3	2	Meaning- Features-Classification of products- Product Mix-Product Innovation-New Product Development
4	2	Product Life Cycle- Branding- Meaning- Advantages and Limitations. Packaging – Meaning – Kinds – Labeling – Meaning-Advantages and Limitation.
5	3	Price – Meaning - Pricing- Importance - Objectives
6	3	Factors affecting pricing decisions Pricing Policies- Procedure for price determination- Kinds of Pricing
7	0	revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Meaning-Importance-Marketing and Distribution- Middlemen in distribution - Function and Kinds of Middlemen
9	4	Agents and Merchant Middlemen-Wholesalers –Types - Services rendered by wholesalers - Retailers- Types – Requisites – Services rendered by retailers
10	4	Introduction to Supply Chain and Logistic Management – Introduction to Networking Marketing and Niche Marketing
11	5	Sales Promotion - Personal Selling – Meaning – Purpose – Types – Advantages - Limitations – Factors to be considered on Personal Selling.
12	5	Advertising- Meaning and definition– Medias – Advantages- Limitations
13	5	Advertising copy –Definition – Elements of an Advertisement copy
14	5	Introduction to Cinema Advertising, Social Media Advertising, Web Advertising, and Mobile Advertising.
15	0	revision

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LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM305P : CORPORATE ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ISSUE OF SHARES-INTRODUCTION-MEANING-DEFINITION-FEATURES-KIND OF COMPANIES-UNDER SUBSCRIPTION AND OVER SUBSCRIPTION
2	1	ISSUE OF SHARES AT PAR-AT PREMIUM-AT DISCOUNT-CALLS-IN-ARREARS-CALLS-IN-ADVANCE
3	1	FORFEITURE OF SHARES-REISSUE OF FORFEITED SHARES-BALANCE SHEET
4	2	INTRODUCTION-MEANING-PROVISION OF THE COMPANIES ACT SECTION 80 AND 80A
5	2	STEPS INVOLVED IN REDEMPTION OF PREFERENCE SHARES
6	2	BALANCE SHEET(REVISED SCHEDULE VI)
7	3	ACQUISITION OF BUSINESSS INTRODUCTION-MEANING-METHODS OF ESTIMATION

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	WHEN SET OF BOOKS ARE OPENED-NET ASSET METHOD-NET PAYMENT METHOD-DEBTOR AND
9	3	CREDITOR TAKEN OVER BEHALF OF VENDORS-WHEN SAME SET OF BOOKS ARE CONTINUED –WHEN DEBTOR AND CREDITORS ARE NOT TAKEN OVER
10	4	PROFITS PRIOR TO INCORPORATION INTRODUCTION-MEANING-METHODS
11	4	OF ASCERTAINING PROFIT OR LOSS PRIOR TO INCORPORATION
12	4	BASIS OF APPORTIONMENT OF EXPENSES AND PREPARATION OF STATEMENT
13	5	FINAL ACCOUNTS OF COMPANIES INTRODUCTION-STATEMENT OF PROFIT AND LOSS
14	5	(PART II OF REVICED SCHEDULE VI)- ADJUSTMENT THE ABOVE TRANSACTION
15	5	BALANCE SHEET(PART I OF REVISED SCHEDULE VI)-MANAGERIAL REMUNERATION

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LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM409T : BANKING LAW AND PRACTICE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bank – origin, meaning and definition, Classification – ownership, structure, functions and nature of business - types of banks and their functions and Services.
2	1	Commercial Banks – meaning, definition, functions and its modern functions - Universal Banking.
3	1	Central Bank – meaning and functions, Credit control measures – meaning and objectives, qualitative and quantitative measures. EXIM Bank – meaning and functions - Deposit Insurance and Credit Guarantee Corporation - revision.
4	2	Negotiable Instruments – meaning, features and types. Cheque - Essentials and types of a Cheque - Crossing of a Cheque - General Crossing - Special Crossing.
5	2	Payment of Cheque – meaning of a paying banker, payment in due course, duties and responsibilities of a paying banker. Collection of Cheque - meaning of a collection banker and duties of a collecting banker.
6	2	Endorsement – meaning and types. Debit Card - Credit Card - Green Card - Smart Card - revision.
7	3	Banker - Customer - General and Special relationship between Banker and Customer. Rights and duties of banker, Opening of Current, Saving and Recurring accounts.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Opening of Fixed deposit Accounts - Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company - Non - Trading Institutions - revision.
9	3	Revision of 1,2 & 3 units
10	4	National Bank for Agricultural and Rural Development (NABARD) – Objectives, Features and Functions. Co-operative Banks – principles, features and structures.
11	4	Regional Rural Banks (RRBs) – meaning and functions - Contribution to social and rural development - Micro Credit (SHGs) – origin and advantages of financing through SHGs – micro credit in India - revision.
12	5	E-Banking – meaning, its services and benefits. Internet Banking meaning, its services, benefits and drawbacks - Telephone Banking – meaning, features, benefits and drawbacks. Mobile Banking – meaning, features, benefits and drawbacks.
13	5	ATMs - – meaning, features and mechanism. Electronic Money – meaning and merits. Electronic Fund Transfer System (EFT) - meaning, features, benefits and requirements.
14	5	Indian Financial Network - Customer Grievances Redressal and Ombudsman – core banking system – meaning, features and advantages. Electronic Clearing Services (ECS) - meaning, features, functioning, benefits and limitations - revision.
15	5	Revision of 4 & 5 units

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LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM306Q : PRINCIPLES OF MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Management : Meaning, Definition, Functions of Management. Managerial skills, levels of management.
2	1	roles of manager, Management as a Science or Art, Approaches to Management -Contribution to management
3	1	F.W.Taylor, Henry Fayol, Elton Mayo, Peter F. Drucker and C. K. Prahalad.
4	2	Planning – Meaning, Definition, importance, process, types, methods (Objectives- Policies- Procedures - Strategies & Programmes).
5	2	Obstacles to effective planning. Decision making – Steps, Types, Decision Tree.
6	3	Organising and Staffing : Organization - Importance - Principles of Organisation. Delegation & Decentralization
7	3	Departmentation - Span of Management. Organizational structure: line & staff and functional

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	organizational charts and manual-making organizing effective-Staffing recruitment -selection-Training, promotion and appraisal
9	4	Directing and Motivating : Function of directing - Motivation - Theories of motivation (Maslow, Herzberg and Vroom's theories) Motivation techniques.
10	4	Communication - Function - Process - Barriers to effective communication.
11	4	Leadership-Definition-Theories and approach to leadership-styles of leadership-Types
12	5	Co-ordination and Control :Meaning, Definition, Nature - Problems of effective coordination.
13	5	Control - Nature - Basic control process - control techniques (traditional and non-traditional)
14	5	Use of Computers in managing information – Concepts of keizen – six sigma.
15	5	Revision and Test

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I Indian Contract Act 1872 Law - Meaning – Objectives – Need for the Knowledge of Law. Law of Contract – Contract- Definition – Agreement and its Enforceability – Consensus Ad Idem – Essential Elements of a Valid Contract –
2	1	– Classification of Contracts. Offer and Acceptance – Legal Rules as to Offer and Acceptance –
3	2	Communication of Offer, Acceptance and Revocation. UNIT – II Indian Contract Act 1872(Other Essential Elements) Consideration – Definition – Meaning – Legal Rules as to Consideration –
4	2	Valid Contracts without Consideration. Capacity to Contract - Agreements with Minor – Minor's Liability for Necessaries
5	2	Free Consent – Coercion – Undue Influence – Fraud – Misrepresentation – Mistake. Agreements Opposed to Public Policy.
6	3	Indian Contract Act 1872 (Special Contracts) Special Contracts – Bailment and Pledge – Indemnity
7	3	contract of Guarantee- Various Modes of Discharge of Contract – Breach of Contract

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Meaning - Remedies for Breach of Contract – Quasi Contract – Types.
9	1	1st 2nd 3rd units revision
10	4	Sale of Goods Act 1930 Sale of Goods Act 1930 -Definition of Sale - Sale Vs. Agreement to Sell, Goods - Condition and Warranties –
11	4	Condition and Warranties — Warranty vs. Guarantee - Express and Implied Conditions -
12	4	“Doctrine of Caveat Emptor” - Rights of Unpaid Seller.
13	5	Consumer Protection Act, 1986 The Consumer Protection Act, 1986. – Definition of “Consumer” – Objectives –Role of Consumer Protection Council – Central Council and State Council – Consumer Disputes Redressal Agencies:
14	5	Meaning of Deficiency in Service -District Forum for Consumer Redressal – National Commission—Jurisdiction – Composition – Appeal. State Commission - Jurisdiction – Composition – Appeal
15	2	4th and 5th units revision

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM306Q : PRINCIPLES OF MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Directing- Functions- Motivation
2	4	Theories of Motivation
3	4	Motivation Techniques- Communication
4	4	Functions- process and barriers of Communication
5	4	Barriers to communication
6	4	Leadership
7	4	Leadership theories

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Approach to Leadership styles
9	1	Revision
10	5	Co- Ordination- Nature
11	5	Problems of Collective Co- Ordination
12	5	Control - Basic control Process
13	5	Control techniques- Use of computer
14	5	Managing information- six sigma
15	2	Revision

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM408P : CORPORATE ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill
2	1	Goodwill Methods-Average profit method-Weighted Average-Super profit method-Annuity method-Capitalization Method.
3	1	Shares-Introduction-Meaning-Definition-Need-Factors affecting valuation of sharesMethods-Net asset method-Yield method-Fair value method.
4	2	Alteration of Share Capital and Internal Reconstruction -- Meaning-Different kinds of alteration of share capital-
5	2	Capital reduction-Procedure for reduction of share capital.
6	3	Amalgamation-Introduction-Meaning -Introduction-Meaning (Accounting Standard 14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase
7	3	Computation of Purchase Consideration-Lump sum method-Net payment method-Net asset method-Intrinsic value method-Absorption-Meaning-Methods- Net payment method-Net asset method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Intrinsic value method-External Reconstruction-Introduction-Meaning-Methods-Lump sum method-Net payment method(Intercompany holding excluded).
9	1	1st Revision
10	4	Holding Company-Introduction-Meaning-Definition-Subsidiary Company-Meaning-Capital Profit-Revenue
11	4	profit-Minority Interest-Goodwill/Capital reserve-Unrealized profit-Computation of consolidated balance sheet (As per Revised Schedule VI).
12	5	Bank Accounts-Introduction-Meaning-Business of banking companies-Legal requirements
13	5	Preparation of profit and loss accounts (Form ‘B’ of Schedule III)
14	5	Balance Sheet (Form ‘A’ of Schedule III).
15	2	Revision 2

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Indian Contract Act 1872, Special Contract- Introduction
2	3	Bailment- Meaning & Definition, Pledge- Meaning & Definition, Differentiate between bailment & plegde
3	3	Indemnity and Guarantee Introduction
4	3	Differences between Indemnity and Guarantee
5	3	Various mode of discharge of contract
6	3	Various mode of discharge of contract
7	3	Breach of contract - Introduction, Meaning

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Breach of Contract
9	3	Revision
10	3	Remedies for Breach of contract
11	3	Remedies for Breach of contract
12	3	Quasi Contract
13	3	Quasi Contract
14	3	Types of Quasi Contract
15	3	Revision

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LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Sale of goods Act 1930- Introduction, Meaning, Scope, Goods
2	4	Goods- Existing Goods, Future Goods, Contingent Goods
3	4	Specific goods, Ascertained goods, Unascertained goods
4	4	Contract of sale - Meaning, Definition, Essentials of a Contract of sale
5	4	Two parties, Goods, Transfer of property, Price, Contract
6	4	Differentiate between sale and Agreement to sale.
7	4	Condition & Warranty - Meaning, Definition, Differentiate between condition and warranty.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Condition to be treated as warranty, Voluntary waiver of condition, Acceptance of goods by the buyer, By impossibility
9	4	Revision
10	4	Implied conditions & warranties, Caveat Emptor, Exception of the Doctrine of Caveat Emptor.
11	4	Unpaid seller - Meaning, Rights of an unpaid seller - Against goods.
12	4	Against the buyer personally, Rules relating to lien, loss of lien.
13	4	Duration of Transit, Transit comes to End, Differentiate between Right of lien and stoppage in transit
14	4	Exceptions of unpaid seller, Action sale, Rules for Action sale
15	4	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ACM301 : BUSINESS CORRESPONDENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business Correspondence - Meaning - need - functions Business Letter - Meaning - types - importance and advantages of Business Letters
2	1	Essentials of a good / Effective business Letter - Structure of a Business Letter - Types of Business Letter Layout - Revision
3	2	Business Enquiries and Replies - Credit and status enquiries - Placing and fulfilling orders.
4	2	Complaints and adjustments - Collection letters - Secular letters - Sales letters
5	2	Application for Employment - References - Testimonials - Letters of appointment - Confirmation - Promotion - Retrenchment and Resignation - Revision
6	3	Bank Correspondence - Meaning - Elements of a good bank correspondence - Types of bank correspondence.
7	3	Insurance Correspondence - Meaning and principles of insurance - Life insurance, Fire insurance and Marine insurance - Specimen letters.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Agency Correspondence - Meaning and kinds of agents - Stages of agency correspondence - Correspondence with share holders and directors.
9	3	Revision Units 1,2,3
10	4	Office Correspondence - Meaning and features of a report - Preparing a report - Styles and types of reports - Agenda - Meaning and writing an agenda - Specimen
11	4	Minutes of Meeting - Meaning and types - Memorandum - Elements and characteristics - Types - Difference between memos and letters.
12	4	Office Orders - Circular - Meaning - Occasion when circulars are sent and characteristics - Types - Office Circular - Office note - Revision.
13	5	Fax - Email - Meaning - Features and advantages - Video Conferencing - Components - multi point video conferencing - Advantages of modern forms of communication
14	5	Internet - Meaning - Functioning - Prerequisites and usefulness - websites and then use in business
15	5	Revision Units 4,5

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Company - Meaning and Definition - Characteristics of Companies - Advantages and Disadvantages of Companies - Lifting of corporate veil
2	1	Kinds of Companies - Limited and Unlimited, Private and Public, Government Companies, Statutory Companies - Differentiate between Private and Public company - One person Company - Corporate Social responsibility u/s 35 of 2013
3	2	Formation of the company - Promotion - Promoter, Functions of a Promoter – Incorporation
4	2	Documents of Companies - Memorandum of Association - Definition, Clauses, Provisions and Procedures for Alteration
5	2	Articles of Association - Definition, Contents, Provisions and Procedures for Alteration, - Distinction between Memorandum and Articles of Association
6	3	Prospectus - Meaning - Objectives - Legal rules relating to the issue of prospectus -Contents - Statements in Lieu of Prospectus - Shelf Prospectus - Red Herring Prospectus
7	3	Share Capital - Meaning - Characteristics - Types - Provisions of alterations - Conversion - Buyback of shares and Commencement of business

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision of Units I, II & III
9	4	Management of companies - Directors - Independent Director - Women Directors - Appointment, Qualification - Directors Remuneration, Rights, Responsibilities and Liabilities.
10	4	Management of Companies - Company Secretary - Definition - appointment - Dismissal - Qualification - Duties & Liabilities
11	4	Meetings - Statutory, Annual, Extra ordinary and Board Meetings, Agenda - Quorum - Proxy - Resolutions - Types - Minutes.
12	5	Winding Up companies - Meaning - Process of Winding Up - Types of Winding Up - Winding up by the Court or Compulsory Winding Up - Procedure after an order of winding up
13	5	Voluntary Winding Up of the Company - Procedures - Kinds of Voluntary Winding Up - Member's Voluntary Winding Up - Creditors Voluntary Winding Up
14	5	Differentiate between Voluntary Winding Up and Creditors Voluntary Winding Up - Types of Liquidator - Powers of Liquidator - Duties of Liquidator
15	5	Revision of Units IV & V

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**NIRMAL RAJ S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AECM403S : INDIAN ECONOMY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Economic Growth and Economic Development.
2	1	Concept and Difference -Features of a Developing Economy .
3	1	Determinants –Concept and Difference -Features of a Developing Economy
4	2	National Income National Income- Concepts-Estimates of National Income – Methods of Calculating National Income
6	2	Structural Changes in Structural Changes in Indian Economy As Seen
5	2	Difficulties in the Calculation of National Income – Causes for Slow Growth of National Income
7	3	Problems of the Indian Economy Major Problems of the Indian Economy Poverty - Inequality -unemployment.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Present status of Indian agriculture-Food Self-sufficiency and Food Security in India
9	3	Measures to Reduce Poverty –Employment Generation Schemes.
10	4	Industrial Sector Industrialization -Role-Pattern-Effects of industrialization-Large scale industries-Iron and Steel industry.
11	4	Cotton industry-Sugar industry-Cement industry-Petrol chemical industry-Automobile industry-Growth of IT industry in India .
12	4	Role of Small Scale industries in India-SIPCOT-TIDCO-SIDCO-TIIC-DIC .
13	5	Infrastructure for Economic Development Infrastructure –Concept-Recent measures to develop Infrastructure
14	5	Energy-Classification of Energy-Communication
15	5	Health-Education

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**VIJAYA SANKAR M Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ASCM301Q : BUSINESS STATISTICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data – Classification and Tabulation of Statistical data.
2	1	Frequency distribution: Simple and Cumulative. Measures of Central value: Arithmetic Mean,
3	1	Median, Mode, Geometric Mean and Harmonic Mean
4	2	Measures of Dispersion : Range , Quartile Deviation, Mean Deviation
5	2	Standard Deviation, combined Standard Deviation and coefficients of variation
6	2	Measures of skewness - Karl Pearsons coeffients of skewness - Bowley's Coefficints of skewness
7	3	Correlation: Karl Pearson's coefficient of correlation, Spearman's rank correlation coefficient .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Concurrent deviation method. Regression analysis: Simple regression equations.
9	4	Index numbers – Uses of index Numbers – Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers – Simple Aggregative Method
10	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices
11	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
12	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly)
13	5	Least Square Method (Fitting of straight line). Measurement of Seasonal Variation: Method of Simple Averages
14	5	Ratio-to-trend Method – Link Relative Method.
15	0	Revision and test conducted for unit 4 and 5

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LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	soft skills- meaning, importance, attributes regarded as soft skills- social skills - thinking skills
2	1	Negotating skills- exhibiting skills - identifying skills - improving skills- practiciing soft skills- measuring attitude.
3	1	knowing yourself- meaning- importance- process- SWOT analysis- benefits
4	2	Time Management: Features of time – Three Secrets of Time Management – Time management Matrix
5	2	Effective Scheduling – Grouping of activities – Five steps to Successful Time Management- Time Wasters – Time Savers – Realizing the value of time.
6	3	Meaning- Types of interview – Telephonic interview – Dress Code at interview – Typical questions in interview
7	3	Tips to present well in the interview. Listening: Meaning – Benefits of Active Listening

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kinds of Listening – Factors that hamper Listening –Poor Listening Habits – Advantages of Active Listening.
9	0	revision
10	4	: Meaning-Importance of Group Discussion- Characters tested in GD - Tips on GD - Types of GD- Skills required in GD - Consequences of GD
11	4	Behavior in GD- Essentials elements of GD - Different Characters in GD -GD etiquette - Areas to be concentrated while preparing for a GD - Non-verbal communication in GD
12	4	Etiquette: Meaning- Benefits of Etiquette – Personal Etiquette, Business Meeting Etiquette and Social Etiquette. Manners: Meaning - Poor manners noticed in youth - Importance of good manners - Practicing good manners – Manners to get respect from oth...
13	5	Career Planning: Meaning– Benefits of career planning – Guidelines for choosing the career – Myths about choosing a career – Tips for successful career planning.
14	5	Resume: Meaning - Types of resumes – CV writing tips - Do’s and Don’ts in preparing resume.
15	0	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ACM301 : BUSINESS CORRESPONDENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business Correspondence – Need – Functions – Business Letters – meaning –types – importance or advantages of Business Letters.
2	1	Essentials of a good / effective business letters – structure of a Business Letters – types of Business Letter Layout - revision.
3	2	Business enquiries and replies - Credit and status enquiries – Placing and fulfilling orders.
4	2	Complaints and adjustments - Collection letters - Secular letters - Sales letters.
5	2	Application for employment - References - Testimonials - Letters of appointment - Confirmation - Promotion - Retrenchment and resignation - revision.
6	3	Bank Correspondence – meaning – elements of a good bank correspondence – types of bank correspondence.
7	3	Insurance Correspondence – meaning and principles of insurance – life insurance, fire insurance and marine insurance – specimen letters.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Agency Correspondence – meaning and kinds of agents – stages of agency correspondence - Correspondence with Shareholders, Directors - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Office correspondence – meaning and features of a report – preparing a report - styles and types of reports. Agenda – meaning and writing an agenda.
11	4	Minutes of Meeting – meaning and types, Memorandum – elements and characteristics – types – difference between memos and letters.
12	4	Office Order – Circular meaning, occasions when circulars are sent and characteristics – types – office circular – office Notes - revision.
13	5	Fax – Email – meaning, features and advantages, Video Conferencing – components – multi point video conferencing – advantages of modern forms of communication.
14	5	Internet – meaning, functioning, prerequisites and usefulness - Websites and their use in Business - revision.
15	5	Revision of 4th & 5th units.

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LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM409T : BANKING LAW AND PRACTICE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bank – origin, meaning and definition, Classification – ownership, structure, functions and nature of business - types of banks and their functions and Services.
2	1	Commercial Banks – meaning, definition, functions and its modern functions - Universal Banking.
3	1	Central Bank – meaning and functions, Credit control measures – meaning and objectives, qualitative and quantitative measures. EXIM Bank – meaning and functions - Deposit Insurance and Credit Guarantee Corporation - revision.
4	2	Negotiable Instruments – meaning, features and types. Cheque - Essentials and types of a Cheque - Crossing of a Cheque - General Crossing - Special Crossing.
5	2	Payment of Cheque – meaning of a paying banker, payment in due course, duties and responsibilities of a paying banker. Collection of Cheque - meaning of a collection banker and duties of a collecting banker.
6	2	Endorsement – meaning and types. Debit Card - Credit Card - Green Card - Smart Card - revision.
7	3	Banker - Customer - General and Special relationship between Banker and Customer. Rights and duties of banker, Opening of Current, Saving and Recurring accounts.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Opening of Fixed deposit Accounts - Special types of Accounts - Minor - Lunatic - Partnership Firm - Joint Stock Company - Non - Trading Institutions - revision.
9	3	Revision of 1,2 & 3 units
10	4	National Bank for Agricultural and Rural Development (NABARD) – Objectives, Features and Functions. Co-operative Banks – principles, features and structures.
11	4	Regional Rural Banks (RRBs) – meaning and functions - Contribution to social and rural development - Micro Credit (SHGs) – origin and advantages of financing through SHGs – micro credit in India - revision.
12	5	E-Banking – meaning, its services and benefits. Internet Banking meaning, its services, benefits and drawbacks - Telephone Banking – meaning, features, benefits and drawbacks. Mobile Banking – meaning, features, benefits and drawbacks.
13	5	ATMs - – meaning, features and mechanism. Electronic Money – meaning and merits. Electronic Fund Transfer System (EFT) - meaning, features, benefits and requirements.
14	5	Indian Financial Network - Customer Grievances Redressal and Ombudsman – core banking system – meaning, features and advantages. Electronic Clearing Services (ECS) - meaning, features, functioning, benefits and limitations - revision.
15	5	Revision of 4 & 5 units

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Soft skill - Introduction-meaning-Importance– Attributes regarded as soft skills
2	1	Soft skills: Social Skill –Thinking skills – Negotiating skills
3	1	Exhibiting soft skills – Identifying soft skills.
4	1	Improving soft skills – Train oneself.
5	1	Practicing soft skills – Measuring attitude.
6	1	Knowing Yourself: meaning – Importance of knowing yourself – Process of knowing yourself
7	1	SWOT analysis – Benefits of SWOT analysis - revision.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Group Discussion: Meaning-Importance of Group Discussion-Characters tested in GD - Tips on GD - Types of GD- Skills required in GD - Consequences of GD - Behavior in GD-Essentials elements of GD - Different Characters in GD
9	4	Skills required in GD - Consequences of GD - Behavior in GD-Essentials elements of GD - Different Characters in GD - revision
10	4	GD etiquette - Areas to be concentrated while preparing for a GD - Non-verbal communication in GD.
11	4	Etiquette: Meaning- Benefits of Etiquette – Personal Etiquette.
12	4	Business Meeting Etiquette and Social Etiquette.
13	4	Manners: Meaning - Poor manners noticed in youth.
14	4	Importance of good manners - Practicing good manners – Manners to get respect from others - revision.
15	4	revision of 1st & 4th units

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LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM305P : CORPORATE ACCOUNTING - I**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Issue of Shares –Meaning –Definition - Kinds of Companies - Under Subscription - Over Subscription and normal Subscription.
2	1	Problems on shares - Issues at par, discount and premium.
3	1	Forfeiture of Shares - Issues at par, discount and premium - Reissues of shares - Problem solving.
4	2	Redemption of Preference Shares : Meaning - Procedure for redumption - Section 80 and 80A
5	2	Problem on Redemption of Preference Shares - Based on profit and reserves.
6	2	Redemption of Preference Shares Based on Fresh issue of capital - Problem Solving
7	3	Acquisition of Business Introduction-Meaning-When new set of books are opened-Net asset method- Problem Solving

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Net payment method-Problem Solving -Debtors and Creditors taken over on behalf of vendors-When same set of books are continued-When Debtors and Creditors are not taken over.
9	4	Profits Prior to Incorporation : Introduction – Meaning - Methods of Ascertaining profit or loss prior to Incorporation.
10	4	Basis of Apportionment of Expenses- Problems - Profit and Loss and Final Accounts
11	5	Final Accounts of Companies : Introduction - statement of profit and loss (Part II of Revised Schedule VI)
12	5	Managerial Remuneration.
13	5	Balance Sheet (Part I of Revised Schedule VI)
14	5	profit and loss and Balance Sheet
15	5	Revision and Test

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM306Q : PRINCIPLES OF MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management introduction,definition,objective,concept, contribution to the management,contribution by f.w Taylor,,role of managers
2	1	Contribution by peter drucker,management contribution by Gentry royal and prabhakar. Approach to the management
3	2	Peter sticker,c. K prabakar.Planning,meaning, definition,importance, process , types of planning (objectives, police's and procedures) features of objective, importance of policies,procedure, characteristics of procedures
4	2	Strategy, characteristics,programme, methods schedule, projects,rules and budget advantage and disadvantages, abstracles for effective planning, steps for effective planning
5	2	Decision making, meaning, definition, steps involved in decision making, types of decision, decision tree, meaning and techniques
6	3	Organizing and staffing, meaning and definition,features, importance principles,organization structure, line and staff manager, functions
7	3	, Departmentation , span of management. Organizational chart and manual. Delegation and decentralization, meaning and definition, features types of delegation, principles of delegation, difference between delegation and decentralization

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Making organization effective, staffing, recruitment meaning and definition,importance, factors influencing recruitment, training, definition, needs and importance,process,promotion , appraisal
9	3	Revision
10	4	Directing and motivation, meaning and definition, mate and importance of directing,, motivation meaning and definition, characteristics, theories of motivation , Maslow's theories
11	4	Motivation Herz Berg theories and vroom theories,, communication , meaning and definition essential of communication,barreies to communication, types of communication
12	4	Leadership meaning and definition , nature, , effective leadership, approach to leadership, leadership styles, autocratic,demogratic leadership,
13	5	Co ordination, control meaning and definition nature,advantages of coordination , effective of coordination, control, meaning,nature, advantages,control process
14	5	Control process,computerised techniques, six sigma meaning , process, keizen meaning,natuure and process,technique,
15	5	Revision fourth and fifth unit

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Indian Contract Act - Meaning and Definition - Objectives - Need - Law of contract.
2	1	Agreement - Meaning - Essential elements - Valid contracts - classification of contracts
3	1	Offer and Acceptance - essential elements - legal rules - communication of offer, acceptance.
4	2	Consideration – Definition – Meaning – Legal Rules as to Consideration – Valid Contracts without Consideration. Capacity to Contract
5	2	Agreements with Minor – Minor's Liability for Necessaries Free Consent – Coercion – Undue Influence – Fraud – Misrepresentation – Mistake. Agreements Opposed to Public Policy.
6	3	Breach of Contract – Meaning - Remedies for Breach of Contract
7	3	Breach of Contract – Meaning - Remedies for Breach of Contract

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	remedies for breach of contract ,quasi contract .types of contracts rules and regulations of quasi contract.
9	0	revision
10	4	Sale of Goods Act 1930 -Definition of Sale - Sale Vs. Agreement to Sell, Goods - Condition and Warranties
11	4	Warranty vs. Guarantee - Express and Implied Conditions - “Doctrine of Caveat Emptor” - Rights of Unpaid Seller.
12	5	The Consumer Protection Act, 1986. – Definition of “Consumer” – Objectives –Role of Consumer Protection Council
13	5	Central Council and State Council – Consumer Disputes Redressal Agencies: Meaning of Deficiency in Service -District Forum for Consumer Redressal
14	5	National Commission—Jurisdiction – Composition – Appeal. State Commission - Jurisdiction – Composition – Appeal.
15	0	revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Company, meaning, definition. Lindsay of companies, limited company, unlimited company, public company and private company.
2	1	Government companies, Statutory companies, one person company. Difference between Government and Private company.
3	1	Holding company, auditory company, corporate company,.Social responsibility under section 35 of 2013.
4	2	Formation of a company, promotion and promoter meaning, definition. Functions of promoter. Incorporation of certificste ,commencement of certificate.
5	2	Documents of companies, Memorandum of Association, meaning and definition, contents of memorandum of association, alteration of memorandum of association.
6	2	Articles of association meaning and definition. Content of articles of association provisions and procedures for alterations of articles of association. Distinction between Memorandum of association and articles of association.
7	3	Prospects meaning, definition. Contents of prospects. Statement in lies of prospects.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Share capital. Types of share capital, provision, alteration, conversion of share capital. Buy back of shares and commencement of Business..
9	3	Revision of 1st ,2nd ,3rd.
10	4	Management of companies. Directors, Independent Doctor, meaning and definition. Appointment of doctors, Qualification and Remuneration of directors.
11	4	Rights and Responsibility and liabilities of Doctors. Women Director meaning,responsibilities,Rigjts and Remuneration. Company Secaratry, meaning and definition. Appointment dismissal, qualification of security.
12	4	Duties and Responsibility of company secaratry.Meeting,meaning,statutory meeting, Annual meeting, Board meeting, Agenda, Quorum, proxy, Resolution. Types of meeting.
13	5	Winding up companies, meaning and definition. Modes of winding up. Winding up by court.
14	5	Role of liquidators in winding up by court. Voluntary winding up. Liquidators in voluntary winding up.
15	5	Revision of 4th, 5th unit.

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I Introduction of a Company-Company - Meaning and Definition
2	1	Kinds of Companies -chartered-statutory-based on liability-foreign company
3	1	Private vs Public, Government Companies features
4	1	Statutory Companies – One Person Company features
5	3	Corporate Social Responsibility u/s 35 of 2013. Unit-III Prospectus - Contents
6	3	Statements in Lieu of Prospectus. Share Capital - Types
7	3	Provisions of Alteration, conversion - Buyback of Shares and Commencement of Business.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revision
9	5	UNIT-V Management of Companies-Appointment, Qualification, Remuneration, Rights, Responsibilities and Liabilities
10	5	Independent Director – Women Directors - Appointment, Qualification, Remuneration, Rights, Responsibilities and Liabilities
11	5	.Company secretary - definition - appointment - dismissal - qualification
12	5	-.Company secretary - duties & liabilities
13	5	- Meetings - Statutory, Annual, Extra ordinary and Board Meetings,
14	5	Agenda - Quorum - Proxy - Resolutions - Types - Minutes.
15	5	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Time Management-Introduction and meaning
2	2	Features of time
3	2	Three Secrets of Time Management
4	2	Time management Matrix
5	2	Effective Scheduling
6	2	Grouping of activities
7	2	Five steps to Successful Time Management

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Time Wasters – Time Savers – Realizing the value of time.
9	2	Revision
10	5	Career Planning: Meaning and overview
11	5	Benefits of career planning
12	5	Guidelines for choosing the career
13	5	Myths about choosing a career – Tips for successful career planning.
14	5	Resume: Meaning - Types of resumes – CV writing tips - Do's and Don'ts in preparing resume.
15	5	Revision

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LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM408P : CORPORATE ACCOUNTING - II**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valuation of Goodwill and Shares Goodwill-Introduction-Meaning-Definition-Need-Factors Affecting Value of Goodwill-Methods-Average profit method-Weighted Average.
2	1	Super profit method-Annuity method-Capitalization Method. Shares-Introduction-Meaning-Definition-Need.
3	1	Factors affecting valuation of shares-Methods-Net asset method-Yield method-Fair value method.
4	2	Alteration of Share Capital and Internal Reconstruction Introduction-Meaning-Different kinds of alteration of share capital-Theory
5	2	Different kinds of alteration of share capital- Problems-Consolidation - Sub-Division. Share to stock and stock to share.
6	2	Capital reduction-Procedure for reduction of share capital
7	3	Amalgamation, Absorption and External Reconstruction Amalgamation-Introduction-Meaning (Accounting Standard 14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase-Computation of Purchase Consideration.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lump sum method-Net payment method-Net asset method-Intrinsic value method-Absorption-Meaning-Methods- Net payment method-Net asset method-Intrinsic value method.
9	3	External Reconstruction-Introduction-Meaning-Methods-Lump sum method-Net payment method(Intercompany holding excluded).
10	4	Holding Companies Holding Company-Introduction-Meaning-Definition-Subsidiary Company-Meaning-
11	4	Capital Profit-Revenue profit-Minority Interest-Goodwill/Capital reserve-Unrealized profit-
12	4	Computation of consolidated balance sheet (As per Revised Schedule VI).
13	5	Bank Accounts Introduction-Meaning-Business of banking companies-Legal requirements.
14	5	Preparation of profit and loss accounts (Form ‘B’ of Schedule III)
15	5	Balance Sheet (Form ‘A’ of Schedule III).

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LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**CM410Q : COMPANY LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Company - Meaning and Definition - Characteristics of Companies - Advantages and Disadvantages of Companies - Lifting of corporate veil
2	1	Kinds of Companies - Limited and Unlimited, Private and Public, Government Companies, Statutory Companies - Differentiate between Private and Public company - One person Company - Corporate Social responsibility u/s 35 of 2013
3	2	Formation of the company - Promotion - Promoter, Functions of a Promoter – Incorporation
4	2	Documents of Companies - Memorandum of Association - Definition, Clauses, Provisions and Procedures for Alteration
5	2	Articles of Association - Definition, Contents, Provisions and Procedures for Alteration, - Distinction between Memorandum and Articles of Association
6	3	Prospectus - Meaning - Objectives - Legal rules relating to the issue of prospectus -Contents - Statements in Lieu of Prospectus - Shelf Prospectus - Red Herring Prospectus
7	3	Share Capital - Meaning - Characteristics - Types - Provisions of alterations - Conversion - Buyback of shares and Commencement of business

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision of Units I, II & III
9	4	Management of companies - Directors - Independent Director - Women Directors - Appointment, Qualification - Directors Remuneration, Rights, Responsibilities and Liabilities.
10	4	Management of Companies - Company Secretary - Definition - appointment - Dismissal - Qualification - Duties & Liabilities
11	4	Meetings - Statutory, Annual, Extra ordinary and Board Meetings, Agenda - Quorum - Proxy - Resolutions - Types - Minutes.
12	5	Winding Up companies - Meaning - Process of Winding Up - Types of Winding Up - Winding up by the Court or Compulsory Winding Up - Procedure after an order of winding up
13	5	Voluntary Winding Up of the Company - Procedures - Kinds of Voluntary Winding Up - Member's Voluntary Winding Up - Creditors Voluntary Winding Up
14	5	Differentiate between Voluntary Winding Up and Creditors Voluntary Winding Up - Types of Liquidator - Powers of Liquidator - Duties of Liquidator
15	5	Revision of Units IV & V

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**CM307S : BUSINESS LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Indian Contract Act 1872 -special contract-Bailment -pledge
2	3	Pledge indemnity -Guarantee
3	3	various modes of Discharge of Contract
4	3	Breach of Contract
5	3	Remedies for Breach of Contract
6	3	Quasi contract
7	3	Types of Quasi contract

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision
9	3	Revision
10	4	Sale of Goods Act 1980- Definition - Sale vs Agreement to sell Goods
11	4	conditions and Warranties- Warranties vs guarantees
12	4	Express and Implied conditions
13	4	Doctraine of caveat Emptor
14	4	Rights of Unpaid seller
15	4	Revision

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**AOES301S : EMPLOYABILITY SKILLS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Group Discussions -Etiquttee-and manners -meaning- Importance of Group Discussion
2	4	Character Tested in Group Discussion
3	4	Tips on GD - Types of GD-
4	4	Skills required in GD - Consequences of GD - Behavior in GD-
5	4	Essentialselements of GD - Different Characters in GD -
6	4	GD etiquette - Areas to be concentrated while preparing for a GD -
7	4	verbal communication in GD. Etiquette: Meaning- Benefits of Etiquette

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Personal Etiquette, Business Meeting Etiquette and Social Etiquette .
9	4	Manners: Meaning -
10	4	Poor manners noticed in youth
11	4	Importance of good manners
12	4	Practicing good manners
13	4	Manners to get respect from others.
14	4	Revision
15	4	Revision

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy –
3	1	land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow –
5	2	ecological succession – food chains, food webs and ecological pyramids –
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act –
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AMCM401 : BUSINESS MATHEMATICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic concepts – Subsets
2	1	Operations on sets Applications – Cartesian Product
3	1	Relation – Properties of relation- Functions
4	2	Distance – Slope
5	2	Equation of Straight line – Interpretation
6	2	Break even analysis – Parabolas
7	3	Limits – Continuity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Average & Marginal concepts
9	3	Differential coefficient concepets – Simple applications to Economics
10	4	Addition of matrices –Scalar multiplication-
11	4	Multiplication of a matrix by a matrix- Inverse of a matrix
12	4	Solution of a system of linear equation –Input output Analysis
13	5	Percentages – Simple interests
14	5	Compound interests – Arithmetic series
15	5	Geometric Series – Simultaneous Linear equations

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LESSON PLAN

Name of the Staff	**MURUGAMANI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**AECM403S : INDIAN ECONOMY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Economic growth and Economic Development
2	1	Economic growth and its concepts, Economic development and its concepts deference between Economic growth and Economic development
3	1	Features of a Developing Economy , Determinants of Development and Growth Obstacles to Economic Development.
4	2	National Income Meaning of National Income Concepts, Estimates of National Income
5	2	Methods of Calculating National Income , production method, expenditure method and income method and Difficulties in the Calculation of National Income
6	2	Causes for Slow Growth of National Income , and its problems into the economy such as, population pressure, depends on agriculture, lack industrial developments. Structural Changes in Indian Economy As Seen in the National Income Data. (revision)
7	3	Problems of the Indian Economy. major problems of Indian Economy. Poverty and its defects into the economy. what is poverty, meaning poverty. types of poverty. causes of poverty.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Inequality, what is inequality and its effects into the economy. Unemployment, what is unemployment and types of unemployment.
9	3	Present status of Indian agriculture, Food Self-sufficiency and Food Security in India - Measures to Reduce Poverty – Employment Generation Schemes.
10	4	Industrial Sector, what is industrial sector and it meaning Industrialization -Role and Pattern of Industrialization and its Effects of industrialization
11	4	Large scale industries and its role on the economic development. Iron and Steel industry-Cotton industry-Sugar industry-Cement industry-Petro chemical industry-Automobile industry
12	4	Growth of IT industry in India, what is small scale industries and its economic development Role of Small Scale industries in India SIPCOT-TIDCO-SIDCO-TIIC-DIC . (revision)
13	5	Infrastructure for Economic Development definition and meaning of Infrastructure. concepts of Infrastructure. role of Infrastructure in economic development current situation Infrastructure in india
14	5	Recent measures to develop Infrastructure. budget allocation to develop Infrastructure
15	5	Energy- what is energy - renewable energy non renewable energy. -Classification of Energy-Communication- Health-Education. present status of inidan health as well as education (revision)

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LESSON PLAN

Name of the Staff	**VIJAYA SANKAR M Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**ASCM301Q : BUSINESS STATISTICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Collection of data – Primary data and Secondary data – Different methods of collecting primary data – Classification and Tabulation of Statistical data.
2	1	Frequency distribution: Simple and Cumulative. Measures of Central value: Arithmetic Mean,
3	1	Median, Mode, Geometric Mean and Harmonic Mean
4	2	Measures of Dispersion : Range , Quartile Deviation, Mean Deviation
5	2	Standard Deviation, combined Standard Deviation and coefficients of variation
6	2	Measures of skewness - Karl Pearsons coeffients of skewness - Bowley's Coefficints of skewness
7	3	Correlation: Karl Pearson's coefficient of correlation, Spearman's rank correlation coefficient .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Concurrent deviation method. Regression analysis: Simple regression equations.
9	4	Index numbers – Uses of index Numbers – Problems in the Construction of Index Numbers – Methods of Constructing Index Numbers – Simple Aggregative Method
10	4	Weighted Aggregative Indices – Laspeyre's, Paasche's, Bowley's and Fisher Ideal Method – Weighted Aggregative Indices – Quantity and value Indices
11	4	Tests of adequacy of Index Numbers: Time Reversal test, Factor Reversal test (problems only). Family Budget method.
12	5	Time Series – Uses and Components. Measurement of Trend: Semi-average method, Moving Average Method (problems up to 5 yearly)
13	5	Least Square Method (Fitting of straight line). Measurement of Seasonal Variation: Method of Simple Averages
14	5	Ratio-to-trend Method – Link Relative Method.
15	0	Revision and test conducted for unit 4 and 5

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management:
12	4	causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health

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LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM618 : PRACTICAL AUDITING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing meaning and definition scope Advantages and limitations, differences between Auditing and accounting, differences between Auditing and Investigation
2	1	Metriality in Auditing, material audit evidence , audit techniques classification as to methods of approach to work
3	1	Types and conduct of audit. Continues Audit, periodical audit, balance sheet audit,internal audit, government audit and cost audit Audit planning, audit engagement letter
4	2	Factor considering before commencing. A new audit, Audit Notebook, audit program, audit files,
5	2	Working papers, vouching of cash and trading transaction, Internal check
6	2	Internal control and internal audit, importance. Verification and valuation of asset and liabilities. Meaning and definition, object of verification and valuation
7	3	Differences between verification and valuation, classification of assets. Importance of vouching

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Verification and valuation of different types of assets. Verification and valuation of different types of liabilities
9	3	Revision for First, Second and third unit
10	4	Audit limited companies.necesity of company audit.Qualification and disqualification of auditor.celing of number of auditor.Remuneration of auditor
11	4	Removel of auditor, special audit u/s 233A,powers of central government, powers and duties of company auditor
12	4	Powers and duties of special audit. Content of special audit report. Investigation meaning and definition, scope and objectives
13	5	Procedure followed in Investigation, Investigation under the companies act. Powers of Inspector.Electornic Data programming system
14	5	Characteristics, comparison of manual and Electronic Data programming system. Features of computer assisted auditing techniques. Uses of company assisted Auditing techniques
15	5	Revision forFourth and fifth unit

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LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM512P : HUMAN RESOURCE MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human Resource management,introduction definition,objective,scope and importance of HRM,Nature of HRM
2	1	Function of HR, Qualities and role of HR, Problem and challenges of HR,Human capital management,meaning , Revision
3	1	Jobs and career in human capital management. Human Resource planning, definition, need and importance, HR process, problem and barriers to HRP, HRP Effectiveness
4	2	Job Analysis, meaning and definition process aspects job Analysis, job description and job specification
5	2	Job design meaning and definition factors affecting job design , methods, work simplification for rotation.
6	3	Recruitment and selection meaning and definition,objectives sources of recruitment, process, methods and recruitment practices in India
7	3	Selection, meaning and definition, application, process, application blank, interviews

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Revision. Training and development, meaning and nature
9	3	Revision
10	4	Principles,assessing the needs of training, inputs and gaps in training, training and development of competitive advantage
11	4	Methods of training, evaluation of Effectiveness of training program. Making the training effective
12	4	HR Culture in MNCs meaning , definition and process. Performance and potential appraisal meaning and definition
13	5	Performance,process, purpose methods of performance appraisal
14	5	Potential appraisal meaning,methods traditional and modern methods, problems
15	4	Revision

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM511Q : COST ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	costing meaning - definition - objectives - importance - costing methods - advantages and limitations.
2	1	difference between cost and financial accounts - reconciliation - format of cost sheet - meaning of material and wages.
3	1	labor and office - selling expenses - working progress - opening and closing cost sheet - cost sheet problems
4	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques
5	2	Stock levels and EOQ- minimum & maximum, average stock level,methods of pricing, material issues.
6	2	methods of pricing material issues – FIFO – LIFO – HIFO. Labour costing and control - Labour turn over – idle time-over time-remuneration
7	3	-time rate and piece rate – Incentive system - Halsey and Rowan plans. Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. problems

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.
9	0	revision
10	4	Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages
11	4	disadvantages,treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification
12	5	Joint and by -products costing –problems under reverse cost method.Meaning, features of contract costing,
13	5	Applications of contract costing, similarities and dissimilarities between job and contract costing,
14	5	procedure of contract costing, profit on incomplete contracts, Problems.
15	0	revision

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM616Q : MANAGEMENT ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Define management accounting ,advantage and disadvantages and scope, difference between management accounting financial accounting, difference between cost accounting and management accounting
2	1	Analysis of financial statement. Types of analysis. Methods of financial statement
3	1	Problems of comparative Staten, problems of commercial statement analysis, problems of trend analysis.
4	2	Meaning and definition of Ratio, classification of ratio. Use and limitation of ratio, types of ratio analysis.
5	2	Calculation of prafitabily ratio problems of Grass profit ratio, Net profit ratio, operating ratio, operating profit ratio.Earning per share, Retained earning ratio.
6	2	Turnover ratio, stock turnover Denver, s turnobet creditors turnover working capital turnover ratios. And Salvamcy ratios.
7	3	Fundamental statement meaning,definition use and limitation of fundflow ststement.Diffrence between cash flow and find flow statement. Preparation of fundflow statement. Statement of change in working capital, statement of find from operation. Calculatio.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Meaning and definition of cash flow statement. Limiting of cash flow statement. Provision of Indian Accounting Standard, preparation of cash flow statement. Cashflow from finical activities.
10	4	Budget and Budgetary control meaning and definition, feature of budget. Elements of succsessful budgetary control. Classification of budget.
11	4	On the basis of time on the factors of production. On the basis of flexibility. On the basis of functions.
12	4	Zero based budgeting, advantages, limitation of budgetary control. Preparation of production budget, sales budget.
13	5	Material budget, material purchase budget production budget. Problems of cash and flexible budget. Marginal costing meaning, definition, features, advantages of marginal costing.
14	5	Limitation of marginal costing. Break Even Analysis. Break Even Point and Margin of safety.
9	3	Revision of 1st, 2nd, 3rd unit.
15	5	Revision of 4th and 5th unit.

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LESSON PLAN

Name of the Staff	**SAVARIMUTHU I Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM617Q : ENTREPRENEURIAL DEVELOPMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Entrepreneurship: Meaning- Nature-Importance-Theories.
2	1	Entrepreneur: Meaning-Definition-Characteristics-Qualities-Types and Roles of an Entrepreneur-Entrepreneur vs. Intrapreneur-Factors Promoting an Entrepreneur.
3	1	Women Entrepreneur: Concept and Definition - Problems of Women Entrepreneurs - Role of entrepreneurs in India's Economic Development.
4	2	Entrepreneurship Development Programme: Meaning-Needs-Objectives –Course Contents and Curriculum.
5	2	Phases of EDP-Problems and Constraints of EDP- Organisations providing Entrepreneurship Development Programmes.
6	3	New Venture: Meaning – Promoting New Venture –Sources of Business Ideas - Idea Generation Techniques-Project Identification-Project Selection.
7	3	Procedures to Start a New Venture.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Project : Meaning- Types-formulation of Project report -Project Appraisal- Network Analysis.
9	3	Revision of 1,2 & 3 units
10	4	Sources of Raising Funds for an Entrepreneur- Need for Institutional Finance.
11	4	Various Institutions supporting Entrepreneurial growth.
12	4	Incentives and Subsidies: Meaning-Needs-Incentives and Subsidies available to Entrepreneurs0– DIC- Industrial Estates
13	5	Introduction- Classification of Enterprises- Memorandum of MSMEs-Registration of MSMEs- MUDRA Scheme, Prime Minister’s Employment Generation Programme (PMEGP).
14	5	STAND-UP INDIA and START-UP INDIA: Objectives-Purpose-Loan facilities available-Applying Procedures.
15	5	Revision of 4 & 5 units

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM515A : INNOVATION MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Innovation - Introduction, Meaning, Definition, Concepts, Nature, Importance, Early Stage of Innovation
2	1	Identifying Opportunities - Discovering New Points of Differentiation - Innovation Drivers-state, Technology, Types of Innovations, Descriptions of Technological, Marketing and Organisation
3	2	Creativity - Meaning, Definition, Need for creativity and importance of creativity, Factors influencing creativity
4	2	Individual, Self evaluation of individual, SWOT analysis, Team, Group dynamics - Meaning, Characteristics, stages, Types
5	2	Factors affecting group behaviour and team building, Leadership - Meaning, Nature, Creating breakthroughs in innovation
6	2	Perception - Meaning, Definition, Perceptual process, Factors affecting perception and techniques to improve Perception.
7	3	Major contemporary theories, Disruptive networked - Open, Alternative theories.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Evolutionary - Uncontested - Adaptive - Green initiatives.
9	3	Revision Units 1,2,3
10	4	New product development - Criticality of the value proposition, Differentiation
11	4	Paths to market, Systems of Ideation, Experimentation & Prototyping, Innovation Labs
12	5	Transformation of Business -Business process, Recognition and execution strategies
13	5	Designing a winning Innovative culture, Patents
14	5	Intellectual property, Successful innovation case studies (any two)
15	5	Revision Units 4,5

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM619B : ADVERTISEMENT AND SALESMANSHIP**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Advertising – Origin and Meaning – Definition – Characteristics – Features – Scope of advertising - Advantages of Advertising – Criticisms of Advertising
2	1	Advertising – Functions of Advertising – Commercial Functions – Social Functions - Psychological Functions
3	1	Primary Functions and Secondary Functions - Purpose of Advertising – Development of Modern Advertising
4	2	Online Advertising – Meaning – Features – Needs – Types – Advantages and Disadvantages of Online advertising
5	2	Online advertising Strategies – The Social Responsibility of the Advertiser – Advertising and Cultural Values – Ethical issues in online Advertising – Guidelines for effective online advertising
6	3	Advertising Agency – Meaning – Definition – Roles – Evaluation – Importance – Classifications
7	3	Advertising Agency – Functions – Selection and evaluation of Advertising Agency – Client – Client Agency Relationship – Handling New Client's Accounts – Clients Expectations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Reasons for losing – Services rendered by an Advertising Agency to its clients – Advertising Agencies in India
9	3	Revision of Units I, II & III
10	4	Introduction to Salesmanship – Meaning – Definition – Objectives – Nature – Advantages of salesmanship – Criticisms against salesmanship
11	4	Differences between selling and salesmanship – Differences between salesmanship and advertising-Classification of salesmen – Functions – Duties and Responsibilities of a Salesman
12	5	Sales Organisation and Sales Territory – Introduction – Meaning – Definition – Needs – Functions – Structure of sales organization - Classification
13	5	Sales Manager – Meaning – Importance – Qualities – Functions – Duties and Responsibilities – Types of sales manager
14	5	Theories of Selling – AIDAS Theory – Buyers Formula Theory – Right Set of Circumstances Approach – Behaviour Equation Theory
15	5	Revision of Units VI & V

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LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM514S : INCOME TAX LAW AND PRACTICE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic concepts- Previous Year, Assessment Year, Persons, Assesse, Gross Total Income.
2	1	Residual Status-(Problems), Exempted Income- Agricultural Income. salary- computation of salary of income.
3	1	taxable income- perquisites and profit in lieu of salary- Deductions U/S 80C to 80 U
4	2	Computation of House Property income -(problems)
5	2	determination of annaual value(problems)
6	2	Deductions.(problems)
7	3	Profits & Gains from business or Profession – Expressly allowed and disallowed deductions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Depreciation – Block of assets.
9	0	revision
10	4	Income from Capital gains – deductions and exemptions problems
11	4	Income from other sources – Grossing up of interest.
12	5	Deemed Income problems
13	5	Set off problems
14	5	carry forward of losses. problems
15	0	revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM620T : INVESTMENT MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Investment Meaning- Investment Vs. Speculation
2	1	Investment Vs Gambling- Important factors favorable for Investment Program
3	2	Stages in Investment - Investors Classification Meaning- Bonds- Preference Shares
4	2	Equity shares- Derivatives- Options Swaps- Futures- Mutual funds
5	3	Meaning- Government Securities- Life Insurance
6	3	UTI- Commercial banks- Provident fund- Post office schemes- National Savings Schemes- Fixed Deposit Schemes.
7	0	revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Meaning- Historical return
9	4	Expected return
10	4	Types of risk- Measurement of risk
11	5	Meaning- Economy, Industry
12	5	Company Specific analysis
13	5	Tools for technical analysis- Charts
14	5	Support and Resistant level analysis
15	0	revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM619A : CUSTOM, EXCISE AND GOODS AND SERVICE TAX**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Customs act 1962- Objectives of Customs Act , Levy and collection of Customs duty , classification of goods , Goods Exempted from Customs duty, Searches ,seizures, confiscation and penalties.
2	1	Central excise duty 1944- Nature of excise duty, levy and collection of excise duty -
3	1	Type of excise duty , valuation of goods- clearance of goods- clearance of samples- registration and exemption from registration.
4	2	Goods and Service Tax – Meaning, History of Goods and Service Tax, Features, Objectives, Challenges, Types – SWOT (Strength, Weakness, Opportunities, and Threats of Goods and Service Tax),
5	2	Scope of Goods and Service Tax - Difference between Indirect Tax and Goods and Service Tax - Advantages and Disadvantages of Goods and Service Tax – Dimension of Goods and Service Tax
6	2	Effects of Goods and Service Tax in Indian Economy – Impact of Goods and Service Tax and its Implication.
7	3	Meaning, Importance, Types, Procedure for Resident and Non-Resident – Application Process and Enrolment process under Goods and Service Tax

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Documents required – Penalties
9	3	Cancellation of Registration – Revocation of Cancellation of Registration. REVISION
10	4	Supply – Meaning, Place of Supply, Time of Supply,
11	4	Value of Supply, Methods of Valuation
12	4	Goods and Service Tax on Exports.
13	5	Assessment – Meaning and types – Accounts and Other Records – Periods of Retention of Accounts. Returns
14	5	Furnishings of details of Outward Supply – Furnishing of Returns – First Return – Claim of Input tax credit and Provisional Acceptance thereof – Matching and Reversal and Reclaim at Reduction in Output tax liability
15	5	Annual Return and Final Return. Payments of Goods and Service Tax –TDS and TCS under Goods and Service Tax – Refund of Goods and Service Tax. REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM511Q : COST ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning of cost and costing - Cost accounting –Meaning, Importance and objectives - Cost accounting Vs. Financial Accounting and its Reconciliation of Cost – costing methods.
2	1	Preparation of Cost sheet – meaning and purpose of cost sheet – cost sheet with details of overheads, stocks of work in progress and finished goods and sales price computation – problems – revision.
3	2	Material control – Meaning, objectives – Need – advantages. Inventory control and its techniques – Stock levels and EOQ.
4	2	methods of pricing material issues – FIFO – LIFO – HIFO - problems.
5	2	Labour costing and control - Labour turn over – idle time-over time-remuneration-time rate and piece rate – problems.
6	2	Incentive system - Halsey and Rowan plans – problems - revision.
7	3	Job costing Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Batch costing : Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems - revision.
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Process costing - Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages.
11	4	simple process accounts - treatment of normal loss, abnormal loss and abnormal gain – problems.
12	4	Joint and by -products costing –problems under reverse cost method - revision.
13	5	contract costing - meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing,
14	5	simple finished contracts – transfer to profit and loss account - profit on incomplete contracts – Problems - revision.
15	5	Revision of 4th & 5th units.

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LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**ECM620A : QUANTITATIVE TECHNIQUES FOR BUSINESS DECISION**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Linear programming: Introduction- Meaning- Importance-Graphical method
2	1	Simplex method-Application of simplex technique
3	2	Inventory models: General concepts and definitions-Various cost concepts
4	2	The technique of inventory control-EOQ models
5	3	Transportation Model: Definitions-Formulation and solution of Transportation models-North west corner
6	3	least cost method - VAM (Vogel's Approximation Model)
7	3	Assignment model - Definitions- Formulation and solution of Assignment models

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	simplex and Hungarian method (Simple problems).
9	3	Revision for I - CIA
10	4	Queuing theory: Meaning - Objectives - Limitations-Elements of queuing system
11	4	Queuing models
12	5	Network Analysis: Meaning- Importance- PERT
13	5	CPM
14	5	PERT-CPM (Problems)
15	5	Revision for II- CIA

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LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM618 : PRACTICAL AUDITING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Auditing meaning and definition scope Advantages and limitations, differences between Auditing and accounting, differences between Auditing and Investigation
2	1	Metriality in Auditing, material audit evidence , audit techniques classification as to methods of approach to work
3	1	Types and conduct of audit. Continues Audit, periodical audit, balance sheet audit,internal audit, government audit and cost audit Audit planning, audit engagement letter
4	2	Factor considering before commencing. A new audit, Audit Notebook, audit program, audit files,
5	2	Working papers, vouching of cash and trading transaction, Internal check
6	2	Internal control and internal audit, importance. Verification and valuation of asset and liabilities. Meaning and definition, object of verification and valuation
7	3	Differences between verification and valuation, classification of assets. Importance of vouching

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Verification and valuation of different types of assets. Verification and valuation of different types of liabilities
9	3	Revision for First, Second and third unit
10	4	Audit limited companies.necesity of company audit.Qualification and disqualification of auditor.celing of number of auditor.Remuneration of auditor
11	4	Removel of auditor, special audit u/s 233A,powers of central government, powers and duties of company auditor
12	4	Powers and duties of special audit. Content of special audit report. Investigation meaning and definition, scope and objectives
13	5	Procedure followed in Investigation, Investigation under the companies act. Powers of Inspector.Electornic Data programming system
14	5	Characteristics, comparison of manual and Electronic Data programming system. Features of computer assisted auditing techniques. Uses of company assisted Auditing techniques
15	5	Revision forFourth and fifth unit

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM515A : INNOVATION MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Innovation- Introduction- Definition-nature- Importance-Early stage of Innovation-
2	1	Identifying opportunities- Differentiation- Drivers- Technology- Types of Innovation- Description of technology-marketers
3	2	Creativity- meaning- definition- need and importance-
4	2	Factors and variables - Self evaluation- SWOT analysis- Team
5	2	Group dynamics- group behaviour- leadership- creating breakthroughs
6	2	Perception - perceptual process- factors
7	3	Innovation theories-Disruptive- Networked

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	open - innovation- alternative theories
9	1	Revision
10	4	Innovation process- New product development- Criticallity of Value preposition
11	4	Differentiation - paths to market- systems of Ideation
12	5	Success and innovation- Transformation of business- Business process
13	5	Recognition- Execution strategies- Designing
14	5	Winning innovative culture- patents- Intellectual property- successful innovation case studies
15	2	Revision

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LESSON PLAN

Name of the Staff	**SAVARIMUTHU I Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM512P : HUMAN RESOURCE MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human Resources Management – introduction, Meaning and definition, Nature, Scope and Objectives, Importance of Human Resources Management.
2	1	Functions of Human Resources Management - Qualities and Role of HR Manager - Problems and Challenges of HR Manager. Human Capital Management (HCM) – meaning – revision.
3	2	Human Resource Planning – Definition, Need and Importance, HRP Process, Problems and Barriers to HRP, HRP Effectiveness.
4	2	Job Analysis – meaning and definition, uses, process and aspects of job analysis. Job Description and Job Specification.
5	2	Job Design – meaning and definition, factors affecting job design and methods –work simplification, job rotation, Job Enrichment and job enlargement.
6	3	Recruitment – Meaning and Definition, Objectives Sources Of Recruitment, Process, Methods, and Recruitment Practices In India.
7	3	Selection – meaning and definition, process, Application Blank, Interviews,. Revision.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Training And Development - Meaning – Nature, Principles, importance and Needs of Training,
9	3	Revision of 1st, 2nd & 3rd units.
10	4	Process of training, Inputs And Gaps In Training – Training And Development As Source Of Competitive Advantage.
11	4	Methods Of Training, Evaluation Of Effectiveness Of Training Programme, Making The Training Effective-HR Culture In MNCs.
12	5	Performance – meaning, purpose, process and methods - Traditional methods.
13	5	Modern Methods of performance appraisal and making performance appraisal more effective.
14	5	Potential Appraisal - Meaning, objectives and how to evaluate employee potential.
15	5	Revision of 4th & 5th units.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.BABY MOTCHARAKKINI S**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM617Q : ENTREPRENEURIAL DEVELOPMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Entrepreneurship – Meaning – Nature – Importance – Theories - Entrepreneur – Meaning – Definition
2	1	Characteristics – Qualities – Types and Roles of an Entrepreneur – Entrepreneur vs Intrapreneur – Factors Promoting an Entrepreneur
3	1	Women Entrepreneur – Concept and Definition – Problems of Women Entrepreneurs – Role of entrepreneurs in India's Economic Development
4	2	Entrepreneurship Development Programmes - Meaning – Needs – Objectives – Course and Curriculum – Phases of EDP
5	2	Problems and Constraints of EDP – Organisations providing Entrepreneurship Development Programmes
6	3	New Venture – Meaning – Promoting New Venture - Sources of Business Ideas – Idea Generation Techniques
7	3	Project Identification – Project Selection – Procedures to Start a New Venture

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Project – Meaning – Types – formulation of Project report – Project Appraisal – Network Analysis
9	3	Revision of Units I, II & III
10	4	Institutional Support and Subsides – Sources of Raising Funds for an Entrepreneur – Need for Institutional Finance – Various Institutions supporting Entrepreneurial growth
11	4	Incentives and Subsides – Meaning – Needs – Incentives and Subsidies available to Entrepreneurs – DIC – Industrial Estates
12	5	MSMED Act 2006 – Introduction – Classification of Enterprises – Memorandum of MSMEs – Registration of MSMEs
13	5	MSMED Act 2006 – MUDRA Scheme – Prime Minister's Employment Generation Programme (PMEGP)
14	5	STAND UP INDIA and START-UP INDIA – Objectives – Purpose – Loan facilities available – Applying Procedures
15	5	Revision of Units VI & V

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LESSON PLAN

Name of the Staff	**Dr.JOHN BOSCO M**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**CM513S : RETAIL MARKETING MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Retailing -meaning -Definition -chacteristics - Importance -Function -Types of Retailer.
2	1	Types of Retailing Formats-Product Retailing vs service Retailing -Retailing Environment
3	2	Merchandise Management – Definition, key areas – phases in developing
4	2	Merchandise plan – Methods of planning and calculating inventory level –
5	2	Basic stock method, percentage variation method, week's supply method and stock to sales method – merchandiser's skill and profile.
6	3	Retail location - factors affecting Retail location decision – site location and lay out - factors affecting site location and lay out
7	3	Steps in selecting site. Store design – interiors and exteriors.Retailing strategies – differentiation strategies – growth strategies

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expansion strategies – pricing strategies. Meaning of logistic and supply chain management- issues of storage and warehouse facility.
9	123	Revision
10	4	Retailing promotion – definition – promotional objectives – SMARRTT objectives – approaches to promotional budget
11	4	Promotional advertising – sales promotion objectives and types- personal selling.
12	5	Meaning and definition of IT – advantages and limitations of IT in Retail trade – competitive advantage of using IT – capturing and transmitting data at point of sale
13	5	Systems for business communication and exchanging data – merchandise reordering system – E - Retailing – merits – systems of E - Retailing – kinds of retailers engaged in E - commerce –
14	5	Future trends – smart cards – E-cash - Multimedia Kiosk – Customer-specific offers – Electronic body scanners – E-Tailing in India.
15	45	Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**6**
Subject	**CM616Q : MANAGEMENT ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Management accounting-meaning, definition, role of an management accountant, difference between the financial accounting, cost accounting and management accounting.
2	1	Tools for financial statement-comparative statement-commonsize statement, trend and analysis.
3	2	Ratio analysis, meaning, definition, uses of ratio analysis, advantages and limitation of ratio analysis.
4	2	Calculation of Liquidity ratios, Profitability ratios and Solvency ratios. Meaning and Definition of Fund Flow Statement –Uses and Limitations of Fund Flow Statement –Differences between Cash Flow Statement and Fund Flow Statement -Procedure for prep...
5	3	Statement of changes in Working Capital –Statement of Funds from Operations –Statement of Sources and Applications of Funds –Problems. Meaning and Definition of Cash Flow Statement –Uses of Cash Flow Statement –Limitations of Cash Flow Statemen...
6	3	Procedure for preparation of Cash Flow Statement –Cash Flow from Operating Activities –Cash Flow from Investing Activities and Cash Flow from Financing Activities –Preparation of Cash Flow Statement according to IAS-7 (Indirect Method Only).
7	0	revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Meaning and definition of budget - essential features of budget-budgeting-budgetary control-objectives-essentials of successful budgetary control (sums)
9	4	classification of budgets-on the basis of time-on the factors of production (sums)
10	4	on the basis of flexibility–on the basis of functions-zero based budgeting -advantages and limitations of budgetary control(sums)
11	4	preparation of production, sales, materials, material purchase, production cost, cash and flexible budgets(sums)
12	5	Marginal costing – definition, features, advantages and limitation sums
13	5	break even analysis and break- even point sums
14	5	margin of safety. sums
15	0	revision

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LESSON PLAN

Name of the Staff	**VIJAYA KUMAR L DR**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**5**
Subject	**ECM514A : LOGISTICS AND SUPPLY CHAIN MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of logistics and supply chain management- importance of logistics and supply chain managemet - objective of business logistics.
2	1	functions of logistics management- supply chain macro process of a firm - channel structure- relationship management
3	1	channel relationship management- logistical alliance services- factors - stimulating based alliances- various approaches to study channels - conditions for successful supply chain relationships.
4	2	storage- functionality and principles- strategic storage warehouse benefits- economic benefits & service benefits
5	2	Types of Warehouses, Functions of Public Warehouses, Material Handling Consideration, Space Layout
6	2	Types of Layout for Order Picking, Area System, Storage Equipment Choice, Movement Equipment Choice, Fully Mechanised Equipment.
7	3	Importance of effective transportation system, Modes of Transportation, Transportation Rates,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Distance Related Rates , Demand Related Rates , Vehicle Routing And Scheduling , Principles For Good Routing And Scheduling , Shipment Consolidation
9	0	revision
10	4	Principles of Logistics Information, Information Architecture, Application of Information Technologies
11	4	Electronic Data Interchange, Personal Computers, Artificial Intelligence or Expert System – Communication, Factors Influencing Distribution Network Design,
12	4	Component of Customer Service, Options for a Distribution Network, E – Business and the Distribution Network, Impact of E – Business on Customer Service, Choice of Distribution Network, Factors Influencing Network Design Decision, The Capacitated Pla...
13	5	Understanding and Managing the Supply Chain risk, Managing the Supply Chain as a Network
14	5	Seven major business transformations, Implication for tomorrow’s Logistics Managers, Emerging mega trends, The Multi-Channel Revolution,
15	0	revision

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LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thrumullar, Thoderadipodi azhvar
2	1	Thrunavukarasar, Manickavasakar
3	1	Andal Patinathar
4	4	Azhvarkal
5	5	Puzhagu porul
6	5	Mozhipayarupu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Throgasuvadugal
9	3	Throgasuvadugal
10	3	Throgasuvadugal
11	4	Sitruelackeyam
12	4	Eslamum tamilum
13	2	Kumarakurbarar
14	2	Nanthi kalabagam
15	2	Muckudar pallu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Parathadesam , Vallarar
2	1	Asasiyajothi , Kannadasan
3	1	Parathithasan - ulagam unnudaiyathu
4	3	Erupatham nurtrandu kavinargal
5	3	Sirukathaen thortramum valarchium
6	4	Sirugathaigal - jail
7	5	Elakkanam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	abdulrahuman
9	2	m. matha
10	2	vairamuthu
11	2	thamilachi
12	2	natupurapadel
13	3	puthukavithai, jail
14	3	natupura ilakiyam, minnal
15	4	kathavu - elutha mareantha kathai

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19BC102 : CELL BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Prokaryotic and eukaryotic
2	1	Membrane structure
3	1	Composition of membrane carbohydrates,and lipid
4	1	Types of membrane proteins peripheral and integral
5	1	Membrane transport passive and active transport
6	1	Endocytosis and exocytosis liposomes
7	1	Symport uniport antiport and liposomes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Nucleus structure and composition
9	4	Chromosome structure
10	4	Structure and function of polytene chromosome
11	4	Structure and function of lambrush chromosome
12	4	Cell cycle and it's phases
13	4	Cell division mitotic
14	4	Meiotic division
15	4	Apotosis and necrosis

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19BC203 : BIOMOLECULES - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Classification of lipids , properties of lipids
2	1	Classification of Fatty acids
3	1	Chemical properties of lipids- Iodine number, Acid number, RM number , Saponification number and Rancidity
5	1	Sphingomyelin and Plasmalogen ,Sterols .
6	1	Glycolipids - Cerebrosides and Gangliosides
4	1	Structure and function of Phospholipids
7	1	Steroids and Carotinoids

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Structure and function of Glutathione
9	5	Structure and function of Vasoupressin
10	5	Structure and function of Insulin
11	5	Structure and function of Hemoglobin
12	5	Structure and function of Myoglobin
13	5	Structure and function of Keratins
14	5	Structure and function of Collagen
15	5	Structure and function of Lipoproteins

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LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19BC101 : BIOMOLECULES - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Scope of Biochemistry. Importance of Biomolecules. Isomerism - structural isomerism and stereoisomerism.
2	2	Introduction and definition of carbohydrates, classification – monosaccharides, oligosaccharides and polysaccharides; occurrence, structure and functions of monosaccharides (glucose and fructose).
3	2	anomers, epimers and mutarotation .Ring and straight chain structure of glucose (Haworth projection formula).Ring and straight chain structure of glucose (Haworth projection formula).Structure, occurrence, properties and biological importance of disacch.
4	3	Structure, occurrence, properties and biological importance of polysaccharides: Storage polysaccharides starch, glycogen
5	3	Structure, occurrence, properties and biological importance of polysaccharides: Storage polysaccharides inulin. Structural polysaccharides cellulose
6	3	Structure, occurrence, properties and biological importance of Structural polysaccharides chitin, pectin
7	3	Structure, occurrence, properties and biological importance of Heteropolyasaccharides (hyaluronic acid, heparin). General properties with reference to glucose

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Chemical Bonding- nature and types- ionic bond (or) polar bond, covalent (or) non-polar bonds, co-ordinate bond and non-covalent bonds (Hydrogen, hydrophobic, Vander walls interactions
9	4	Nucleic acids – Bases ,Nucleosides and Nucleotides, Phosphodiester linkage
10	4	Properties of DNA – Denaturation, Renaturation, Tm and Hyperchromicity,
11	4	Types of RNA Structure of RNA- tRNA, mRNA and rRNA.
12	5	Porphyrin nucleus and its classification.Heme synthesis.
13	5	pigments- chemical nature and physiological significance. Biological importance of Heterocylic compounds- Thiazole, Indole, Pyridine, Pteridine, Pyrrole and Imidazole.
14	5	Biological importance of Heterocylic compounds- Thiazole, Indole, Pyridine, Pteridine, Pyrrole and Imidazole.
15	5	Biological importance of Heterocylic compounds- Pteridine, Pyrrole and Imidazole.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Vallalar - Thiruvarutpaa 1.2. Barathiyar - Barathadesam
2	1	1.3. Barathidasan - Ulagam unnudaiyathu 1.4. Kavimani - Aaciyajothi
3	1	1.5. Kannadasan - Utharimainthan
4	3	3.1. Irupadam Nootrandu kavinjargal
5	3	3.3. Sirukathain thottramum valarchium
6	4	4.1. kathavu
7	4	4.2. Kudumpaththil Oru Nabar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1. Vallottru migum edangal 5.2. Vallottru miga edangal
9	2	2.1. Abdul raguman - Aalaabanai 2.3. Vairamuththu - Suyakolli
10	2	2.2. Mu.Meththaa - Thesapidavukgu theru padaganin anjali
11	2	2.4. Thamizhchi - Enjottupen 2.5. Nattupurapadalgal
12	3	3.2. Puthukavithaien Thottramum valarchium
13	3	3.4. Nattupura Illakiyangal
14	4	4.3. Jeyil - Sirukathai
15	4	4.4. Minnal 4.5. Ezhuthamarantha kathai

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular- Thirumanthiram, thondaradipadi yazhvar thirumalai
2	1	Thirunavukkarasar thevaram, Manikkavasakar - thiruvasakam
3	1	Aandal thiruppavai, pattinathar padalkal
4	4	Sampanthar, sundhrar mattum, Aazhvargal- Mutjal Aazhvar movar mattum
5	5	Mozhi thiran Ariviyal, Aatsithurai, kanini, puzhanku porutgal kalaisol Aakkam
6	5	Mozhipeyarpu paguthi
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai - thuroga suvadugal - ve.Eraiyanbu 1-6
9	3	Thuroga suvadukal 7-10
10	3	Thuroga suvadugal 11-13
11	4	Sitrilakkiyankal thoothu, Ula, Kuravanchi, Anthathi
12	4	Islamum Thamizhum
13	2	Masthan sagipu Paraparakanni, Kumarakuruparar Pillai thamizh
14	2	Kalingathu parani, Nanthi kalambagam
15	2	Mukkudar pallu

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LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**ACH202T : ANALYTICAL CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURIFICATION TECHNIQUES Purification of solid compounds- Crystallization-
2	1	Fractional crystallization-
3	1	PURIFICATION TECHNIQUES Purification of solid compounds-Sublimation
4	1	PURIFICATION TECHNIQUES Purification of liquids-Experimental techniques of distillation-
5	1	PURIFICATION TECHNIQUES Purification of liquids-Fractional distillation-
6	1	PURIFICATION TECHNIQUES Purification of liquids-Vacuum distillation-
7	1	PURIFICATION TECHNIQUES Purification of liquids- Steam distillation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revision
9	5	TECHNOLOGY OF WATER Water quality parameters-
10	5	TECHNOLOGY OF WATER Temporary and Permanent hardness
11	5	TECHNOLOGY OF WATER Temporary and Permanent hardness
12	5	TECHNOLOGY OF WATER Estimation of hardness (EDTA method)
13	5	TECHNOLOGY OF WATER Water softening (Zeolite) - Demineralization (Ion Exchange) and desalination (RO)
14	5	TECHNOLOGY OF WATER Demineralization (Ion Exchange) and desalination (RO)
15	5	Revision

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19BC102 : CELL BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Endoplasmic reticulum: occurrence, morphology and function.
2	2	Enzymes of the ER membrane.
3	2	Lysosomes: structure and chemical composition.
4	2	Ribosomes: structure and functions.
5	3	Mitochondria: morphology and function.
6	3	Golgi complex : structure & function.
7	3	Microbodies: structure, morphology and function, of peroxisomes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Microbodies: structure, morphology and function,of glyoxysomes
9	5	Cytoskeleton - components
10	5	Cytoskeleton - biological functions.
11	5	Microtubules, Distribution, chemical composition and function.
12	5	, Microfilaments Distribution, chemical composition and function.
13	5	IF proteins: Distribution, chemical composition
14	5	IF proteins: - function.
15	5	comparison for cytoskeleton

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19BC203 : BIOMOLECULES - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definition and classification of Amino acids based on structure,
2	2	classification of Amino acids based on metabolism & Polarity .Essential & Non essential amino acids
3	2	Non protein amino acids. General properties of amino acids.
4	2	General properties of amino acids. Titration curve of aminoacids.
5	3	Protein- Definition, Peptide bond, Classification based on size
6	3	Classification based on shape, solubility, composition & functions.
7	3	General reactions of proteins (Reactions of NH2 group

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	General reactions of proteins (Reactions of COOH group)
9	4	Structure of proteins-primary, secondary structure
10	4	structure of proteins-tertiary & quaternary.
11	4	Ramachandran plot and forces stabilizing the structure of proteins,
12	4	Determination of amino acid sequence, N -terminal determination- Edman's and dansylchloride method.
13	4	C- terminal identification - hydrazinolysis
14	4	C- terminal identification- enzymatic method,
15	4	solid phase polypeptide synthesis.

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LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**ACH101T : ALLIED CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Chemical bonding –Types of Bonding-Bonding in Carbohydrates and Proteins
2	1	Structure of Amino acids-Zwitter ion-Isoelectric Point – Structure of Proteins.
3	1	1.3 Oxidation-Reduction reactions
4	1	selectivity in Oxidation and Reduction Reactions.
5	3	3.1 Thermochemistry-Units of Energy changes-Exothermic and Endothermic reactions-
6	3	Heat of reaction- Different types of the heat of reaction
7	3	3.2 IonicEquilibria-pH scale-Buffer solution-Types of Buffer Solution-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Calculation of pH values of Buffer mixtures-Henderson equation
9	3	3.3 Acid-Basecatalysis-Bronsted relation
10	3	Enzyme catalysis-Michales-Menton equation-Influence of pH and temperature.
11	5	5.1 Macromolecules-Classification of Polymers-Chemistry of polymerization-Addition
12	5	5.2 Polymerisation-Condensation Polymerisation-Coordination Polymerisation
13	5	Dendrimers-Biopolymers
14	5	5.3 Bio fuels-First generation of Bio fuels-Second generation of Bio fuels-
15	5	Sustainable Bio Fuels-Calorific value of food and fat.

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LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**ACHP202S : ALLIED CHEMISTRY PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Demo
2	1	Estimation of sodium carbonate
3	2	Demo
4	2	Estimation of oxalic acid
5	3	Demo
6	3	Estimation of ferrous ion by potassium permanganate
7	4	Demo

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Estimation of ferrous ion by potassium dichromate
9	5	Demo
10	5	Estimation of Hardness of water by EDTA
11	6	Demo
12	6	Colorimetric estimation of iron
13	1	revision
14	1	revision
15	1	model lab

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LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore Elocution
12	5	Description Narration
13	5	Paragraph Writing
14	0	II CIA
15	0	FULL REVISION

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LESSON PLAN

Name of the Staff	**ASHOK KUMAR K Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs.Making Requests and Responding to Requests.Thanking to Someone and Responding to Thanks.Prose How tobe a Doctor.
2	1	Precis Writing. Non-Finite Verbs.Strong and Weak Verbs. The Auxiliaries.
3	1	Triphthongs. Making Request Responding to Request
4	2	Prose:How to be Doctor Precis Writing
5	2	Non Finite Verbs Strong Verbs The Auxiliaries
6	2	Strong And WeakVerbs Auguries of Innocence Note Making Use of Wrong Preposition
7	3	Unnecessary Use of Article Relationship Between Spelling andSound. My Vision for India Report Writing Writing Punctuation And Capitals

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Sentence Transcription Daily Routines Poem: IF
9	4	The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing Short Passages Asking for Directions
12	5	Introduction of Kiran Bedi
14	5	The Uses of Prefixes and Suffixes
13	5	The Uses of Wrong Tenses
15	5	Revision

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LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**ACH202T : ANALYTICAL CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Chromatography – Types - Column chromatography
2	2	Chromatography – Thin Layer chromatography
3	2	Chromatography – Ion Exchange Chromatography
4	3	Polarography – Principle – Instrumentation
5	3	Polarography – Application of Polarography
6	3	Cyclic voltammetry – Principle – Instrumentation
7	3	Cyclic voltammetry – Application of CV

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polarimetry – Principle - Instrumentation-Application
9	3	Polarimetry – Estimation of Glucose
10	4	Rotational spectroscopy-the rotational energy levels of molecules
11	4	rotational transitions Vibrational spectroscopy – the vibrations of molecules –transitions
12	4	UV-Visible Spectroscopy-Absorption Laws-Selection Rules - Types of Electronic transitions
13	4	UV-Visible Spectroscopy – chromophore-Auxochrome-Absorption bands and Intensity
14	4	Woodward-Fieser rules for calculating ?max in Dienes compounds
15	4	Woodward-Fieser rules for calculating ?max in a,ß-unsaturated carbonyl compounds

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LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**ACH101T : ALLIED CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	COORDINATION CHEMISTRY: Terms used in coordination chemistry, Werner's theory
2	2	Structure and function and roll of Hemoglobin and Myoglobin
3	2	Biochemistryof iron--Heme proteins-Nature of Heme-Dioxygen Binding-Iron storage and Transport
4	2	BioChemistry of other metals- Zn-CarboxypeptidaseA
5	2	Carbonic anhydrase - Mg-chlorophyll.Co-VitaminB12
6	1	Stereoisomerism - Types, causes of optical activity with an example
7	1	optical activity of Lactic Acid & Tartaric acid

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Racemisation - Resolution, Geometrical isomerism – Maleic acid &Fumaric acid
9	4	Introduction and Developement of NewDrugs
10	4	Drug and Disease-Structure and activity
11	4	Additives and their role-Human Gene therapy
12	4	Animal and Synthetic Biotechnology
13	4	Mode of action and uses of sulpha drugs
14	4	Prontosil, sulphadiazine and sulphafurazole
15	4	Definition and one example of analgesics, antipyretics, transquilizers, sedatives, local and general anaesthetics.

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**ACHP101 : ALLIED CHEMISTRY PRACTICAL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Qualitative organic analysis
2	1	Qualitative organic analysis
3	1	Qualitative organic analysis
4	1	Qualitative organic analysis
5	1	Qualitative organic analysis
6	1	Qualitative organic analysis
7	1	Qualitative organic analysis

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Qualitative organic analysis
9	1	Qualitative organic analysis
10	1	Qualitative organic analysis
11	1	Qualitative organic analysis
12	1	Qualitative organic analysis
13	1	Qualitative organic analysis
14	1	Qualitative organic analysis
15	1	Qualitative organic analysis

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LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling Quiz game
3	2	Debate Group discussion
4	2	Seminar
5	2	Seminar
6	3	Book review Fiom review
7	3	Book review Fiom review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	4	Welcome add Vote of thanks
10	4	Speech on current events Report writing
11	5	Narrating dreams
12	5	Narrating dreams
13	5	Narrating Ambition
14	5	Narrating Ambition
15	2	II CIA

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LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Listening: English speech sounds- Consonants, Speaking: 1. Meeting People, Exchanging Greetings & Taking Leave 2. Introducing people to others
2	1	Reading: Prose: Forgetting - Robert Lynd Writing: 1. Letter-Writing - Informal Letters 2. The Sentence 3. Parts of Speech
3	2	Listening: Speech sounds- Pure Vowels Speaking: 1. Giving Personal Information 2. Talking about people
4	2	Reading: Poem: Mending Wall – Robert Frost Writing: 1. Letter-Writing - Formal Letters 2. Nouns – Classes and Gender 3. Nouns – Number and case 4. Adjectives 5. Comparison of Adjectives
5	3	Speaking-Taking and leaving messages Making enquiries on the phone Reading-Poem:Time and Love-Shakespeare
6	3	Writing- Dialogue Writing Articles Pronouns-Personal, Reflexive and Emphatic Pronouns- Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal Pronouns- Relative
7	4	Listening: Phonetic Transcription (words) Speaking: Answering the Telephone and Asking for Someone

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Reading: 1. Prose: Mother Teresa - John Frazer 2. One-Act Play: The Best Laid Plans - Farrel Mitchell
9	4	Writing: 1. Reading Comprehension
10	4	Writing 2. Verbs – Transitive and Intransitive 3. Verbs – Active and Passive Voices
11	5	Listening: Voiced and Voiceless sounds.
12	5	Speaking: Dealing with a wrong number
13	5	Reading: Short Story: The Selfish Giant- Oscar Wilde
14	5	Writing: 1. Verbs: Mood and Tense 2. Concord or Agreement of the verb with the Subject
15	5	Syllabus Completed Revision

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LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Puranannuru, Aganannuru, kurunthogai
2	1	Natrinai,Eykurunoor kalithogai
3	1	paripadal
4	4	Eattu thogail
5	4	nethinoolkal
6	3	Thirukural
7	3	thirukural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	surukivaraithal
9	5	Nerkannal
10	4	Patthupattu
11	2	Nedunelvadai 1-30
12	2	Nadunelvadai 31-62
13	2	Sirupanatrupadai
14	2	Madhuraikanchi
15	2	mullaipattu

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LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BC303S : ENZYMES**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	MM EQUATIONS .Significance of Km.Vmax.ifferent types of inhibitors.
2	2	Suicidal inhibitors.L.B plot.Eadie Hofstee plot.Reversible and iirversible inhibitors
3	3	Allosterism, nature of allosteric enzymes, sigmopidal curve.
4	3	Mode of action--Sequential,symmetry model.
5	3	Allosteric inhibition.eg;Aspartate trans carbomylase and Phospo fructo kinase,
6	3	Mechanism of enzyme action without cofactors--Chymlotrypsin
7	4	Chemical nature of enzyme catalyst--introduction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Acid base catalyst,covalant catalyst, metal ipon catalyst.
9	4	proximity and orientation effect
10	4	Coenzymes- NAD+. NADP+, FMN, &FAD+.
11	4	Coenzymes,--CoA, TPP.-- physiologicl Functions
12	5	Purificatin of enzymes.--Molecular seiving method
13	5	Purification of enzymes-Affinity chromatography
14	3	Revision test
15	4	Revision test

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBC401T : ADVANCED ZOOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit: 1 INVERTEBRATES AND CHORDATES- Structural and functional details of phylum–Protozoa-
2	1	Plasmodium vivox,
3	1	Helminthes-Taenia solium,
4	1	Annelida-Earthworm- Digestive system,
5	1	Prochordata – amphioxus- Morphological details of chordates-
6	1	Pisces-shark, Amphibia -Frog,
7	1	Reptiles- Calotes, Aves- pigeon,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Mammalia- Rat.
9	5	Unit: 5 ECOLOGY AND EVOLUTION- Principles and Applications of Environmental biology.
10	5	ecological succession, ecological niche,
11	5	Animal relationships, Interspecific-
12	5	Antagonism, symbiosis,
13	5	Parasitism, Mutualism,
14	5	commensalisms. Fossil and Fossilization,
15	5	Dating of Fossils, Geological timescale.

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBP401 : ADVANCED ZOOLOGY PRACTICAL**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm.
2	1	1. Dissection of digestive system and body setae in earthworm.
3	1	2. Prawn- Appendages
4	1	2. Prawn- Appendages
5	1	3. Estimation of Unit metabolism of fish.
6	1	3. Estimation of Unit metabolism of fish.
7	2	MINOR PRACTICALS a. Squash preparation of onion root tip for mitosis.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	a. Squash preparation of onion root tip for mitosis.
9	2	b. Human pedigree construction for a family data.
10	2	b. Human pedigree construction for a family data.
11	2	c. Mouth parts- Honey bee and Mosquito.
12	2	c. Mouth parts- Honey bee and Mosquito.
13	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs,
14	3	72hrs and 96hrs, Taenia solium, Plasmodium,
15	3	T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**BCP402S : MAIN PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Preparation of Buffers
2	2	Food and Biochemical Analysis- Carbohydrates , Protein , Fibre, Water and Ash content
3	3	Estimation of Protein by Biuret method
4	4	Estimation of Phosphorus
5	5	Estimation of DNA
6	6	Estimation of RNA
7	7	Estimation of Iron

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Estimation of Copper
9	9	Estimation of Oxalate
10	10	Estimation of Potassium dichromate
11	11	Estimation of Calcium
12	12	Preparation of Strach
13	13	Preparation of Casein and Lactalbumin from milk
14	14	Preparation of Albumin from egg
15	15	Demonstration - Aminoglycosides by Paper Chromatography , Lipids from TLC and SDS- PAGE .

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Silappathigaram
2	2	Manimegalai
3	3	5 Perum kapiyangal
4	4	Sirukapiyangal , sozerkala kapiyangal
5	5	Seevagasinthamani
6	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savai Maiya Aluvaler
7	5	Surtula Vazikati Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Pothukaturai
9	2	Kambaramayanam - Angathan Thoothu Padalam
10	3	Periya Puranam - Kalarsinga Nayanar Puranam
11	3	Ratchanya Yathirigam - Siluvai Padugal
12	3	Seera Puranam - Puli Vasanitha Padalam
13	4	ILakiya Varalaru - Chiruthuva Kapiyangal
14	4	ILakiya Varalaru - Chiruthuva Kapiyangal
15	4	Ilakiya Varalaru - Ilam Kapiyangal

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aganaanuru Puranaanuru
2	1	Kurunthogai Natrinai Aingurunuru
3	1	KALITHOGAI PARIPAADAL
4	4	Ettuthogai
5	4	Keezhkanakkil neethinoolgal
6	3	Thirukkural arivudaimai
7	3	Natparaithal pulavinunukkam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Surukki varaithal Mozhithiran
9	5	Neirkkanal Mozhithiran
10	4	Pathuppaattu
11	2	Nedunalvaadai 1 to 30
12	2	Nedunalvaadai 31 to 62
13	2	Sirubaanaatruppadai
14	2	Madhuraikkanji
15	2	Mullaipaattu

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**19AOA301 : OFFICE AUTOMATION & DESIGNING**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Microsoft Office: Overview of the Office components(Word,Excel,PowerPoint,Access).Identifying Common Screen Elements – Exiting a Program
2	1	. Common Office Tools and Techniques: Switching from one application to another – Sizing and Arranging Windows – Working with Menus
3	1	Working with Dialog Boxes – Working with Toolbars.- Using the Clipboard to cut, copy and paste.
4	2	Starting Word:Starting a New Document – Opening an Existing File – Saving a Document – Printing a Document – Closing a Document.
5	2	Word Basics :–Typing Text – Inserting, Selecting and Deleting Text – Using Undo and Redo – Inserting Special Characters or symbols – Formatting Characters (Changing Fonts and Font Sizes, Applying Bold, Italic or Underline, Changing Text Case ...
6	2	Margins & Gutters - Working with Bulleted or Numbered Lists – Aligning Text – Borders and Shading - Formatting Paragraphs – Line Spacing
7	3	Working with AutoCorrect and AutoFormat: Using Find and Replace – Correcting Spelling and Grammatical Errors

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Working with Headers and Footers – Working with Tabs - Working with Tables.
9	3	Working with Graphics:Importing Graphics – ClipArt Gallery – Drawing Objects.
10	4	Using Excel: Creating s Simple Spreadsheet
11	4	Editing a Spreadsheet – Working with Functions and Formulas
12	4	Formatting Worksheets – Creating Charts.
13	5	Using PowerPoint:Creating& Viewing Presentations
14	5	Editing a Presentation
15	5	Working with Presentation Special Effects

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1 PURANANOORU 1.2 AGANANOORU
2	1	ETTUTHOGAI 1.3 KURUNTHOGAI 1.4 NATRINAI 1.5 INGURU NOORU
3	1	ETTUTHOGAI 1.6 KALITHOGAI - PAALAI KALI 1.7 PARI PAADAL - THIRUMAAL
4	4	ILAKKIYA VARALAARU 4.1 ETTU THOGAI
5	4	ILAKKIYA VARALAARU PATHINEN KEEZH KANAKKU NOOLGAL
6	3	THIRUKKURAL 3.1 ARIVUDAIMAI 3.2 NATPAARAAITHAL
7	3	THIRUKKURAL 3.3 PULAVI NUNUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN 5.1 PATHRIKKAIGALIL SEITHI VARAITHAL 5.2 SURUKKI VARAITHAL
9	5	MOZHI THIRAN 5.3 NEER KAANAL
10	4	ILAKKIYA VARALAARU 4.2 PATHTHUPPAATTU
11	2	PATHTHUPPAATTU 2.1 NEDUNAL VAADAI - KAAR KAALA VARUNANAI
12	2	2.1 NEDUNAL VAADAI - KAARKAALA VARUNANAI
13	2	2.2 SIRUPAANAATRUPPADAI - KADAI EZHU VALLALGALIN SIRAPPU
14	2	2.3 MADHURAI KAANJI
15	2	2.4 MULLAI PAATTU

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LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BC304S : ANALYTICAL BIOCHEMISTRY - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to spectroscopy technique
2	3	Principle of uv visible spectroscopy
3	3	Instrumentations of uv visible spectroscopy,
4	3	Wavelength selectors ,monochromator and prism
5	3	Detectors and it's types and also applications of spectroscopy
6	4	Fluorescence and phosphorescence
7	4	Introduction to spectroflurimetry

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Principle and instrumentations of spectroflurimetry
9	4	Applications of spectroflurimetry
10	4	Introduction to flame photometry
11	4	Principle and instrumentations of flame photometry
12	4	Applications of flame photometry
13	4	Introduction to atomic absorption spectrophotometer
14	4	Principle and instrumentations of atomic absorption spectrophotometer
15	4	Applications of atomic absorption spectrophotometer

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LESSON PLAN

Name of the Staff	**KRISHNAN R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**AMBC302 : ALLIED MICROBIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	History and scope of Microbiology, Size, Shape and Morphology of Bacteria, and Bacterial endospores
2	1	Bacterial anatomy and internal structure, external structure
3	1	Formation of Endospore in Bacteria, Examples of Spore producing Bacteria
4	2	Microscopes, Types like Bright field, Phase Contrast, Dark field
5	2	Electron Microscope - TEM and SEM
6	2	Bacterial classification , Binomial taxonomy
7	3	Sterilisation by Physical Method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Chemical method
9	3	Antibiotics and its types
10	4	Microbial nutrition and its type, Culture media ,Motility of bacteria
11	4	Nutritional types, Pure culture techniques, Microbial growth curve
12	4	Measurement of microbial growth , Continuous culture, Environmental factors affecting growth, Bacterial reproduction.
13	5	Mycoplasma, Actinomycetes, Phosphate soluble bacteria
14	5	General characters of bacteria, algae, fungi protozoan and virus
15	5	Human diseases, and their causative agents

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LESSON PLAN

Name of the Staff	**RAMAKRISHNAN R Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	Water resources: over – utilization, floods, drought – mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging,
3	1	Salinity – energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics
6	2	Structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
9	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	Solid waste management: causes, effects, control measures and disposal of wastes
11	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBC401T : ADVANCED ZOOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	CHORDATES- Prochordata – amphioxus-
2	2	Morphological details of chordates- Pisces-shark,
3	2	Amphibia -Frog, Reptiles-
4	2	Calotes, Aves- pigeon, Mammalia- Rat.
5	3	CYTOLOGICAL TECHNIQUES AND HUMAN GENETICS – Histological techniques – Fixation-
6	3	selective fixatives-
7	3	Embedding- Sectioning and Staining Principles

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Embedding- Sectioning and Staining Principles
9	4	DEVELOPMENTAL BIOLOGY- Gametogenesis in mammals – s.
10	4	Spermatogenesis, Oogenesis, Fertilization.
11	4	Types of Eggs, Pattern of cleavage & Blastulataion in chick,
12	4	Gastrulation. Human Reproduction-
13	4	puberty, Menstrual cycle, Menopause,
14	4	Pregnancy and related problems-parturition and lactation-
15	4	Human cloning- Ethic

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBP401 : ADVANCED ZOOLOGY PRACTICAL**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
2	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
3	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
4	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
5	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
6	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
7	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
9	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
10	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
11	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
12	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
13	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
14	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
15	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**BCP402S : MAIN PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	S-I, II Estimation of RNA
2	4	S-I, II Isolation of Starch from potato Separation of casein from milk
3	4	S-I Preparation of albumin from egg S-II Estimation of copper
4	4	S-I, II Preparation of buffer and normal saline
5	4	S-I, II Preparation of agar agar, Paper chromatography,
6	4	S-I, II thin layer chromatography, SDS demostration
7	4	S-I Paper chromatography

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	S-I, II Thin layer chromatography, SDS PAGE
9	4	S-I, II Food analysis
10	4	S-I, II Model practical examination I (batch I)
11	4	S-I, II Model practical examination I (batch II)
12	4	S-I, II Model practical examination II (batch I)
13	4	S-I, II Model practical examination II (batch II)
14	4	Revision
15	4	Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BC304S : ANALYTICAL BIOCHEMISTRY - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Shift I & II: Units of measurements, colloids and Properties of colloids, osmosis
2	1	Shift I & II: Viscosity and its significance in biology, surface tension and factors affecting surface tension
3	2	Shift I & II: Electrochemical techniques, principles of electrochemical techniques pH, pOH, buffer
4	2	Shift I & II: Buffers in body fluids, red blood cells and tissues
5	2	Shift I & II: Measurement of pH using indicator – Glass electrode and principles of oxygen electrode
6	2	Shift I & II: Oxygen electrode working and application of clark's electrode
7	34	Shift I: Unit (3): Electromagnetic radiation: Basic principles of electromagnetic radiation, energy, wavelength, wave number, frequency, absorption and emission spectra. Shift II: Unit (4): Fluorescence and phosphorescenceprinciples of spectrophoto..

Cycle	Unit	Topics to be covered / Activity to be carried out
8	34	Shift I: Unit (3): Beer Lambert law, light absorption and its transmittance. Shift II: Unit (4): Instrumentation and application of spectrophotometry (vitamin assays (riboflavin and thiamine).
9	34	Shift I: Unit (3): Infrared spectroscopy principle, instrumentation and its application. Shift II: Unit (4): Flame photometry-principle, instrumentation and applications in trace elements (Na+, K+ analysis).
10	45	Shift II: Unit (4): Principles, instrumentation and applications of Atomic Absorption Spectrophotometer with one example. Shift I: Unit (5): Centrifugation techniques, basic principles, types of centrifugation and types of rotors.
11	5	Shift I & II: Unit (5): Sedimentation rate, Svedberg unit, preparative centrifugation -differential centrifugation.
12	5	Shift I & II: Unit (5): Density gradient centrifugation
13	5	Shift I & II: Unit (5): Analytical ultracentrifugation techniques, determination of molecular weight of proteins.
14	123	Revision
15	45	Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**BC406S : ANALYTICAL BIOCHEMISTRY - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	S-I, II Paper chromatography, TLC , column chromatography
2	2	S-I, II Gas liquid chromatography, ion exchange chromatography
3	2	S-I, II Affinity chromatography, Molecular sieve chromatography, HPLC
4	2	S-I, II Revere Phase chromatography, electrophoresis, factors affecting electrophoretic mobility
5	3	S-I, II Tisellius moving boundary electrophoresis, Paper electrophoresis, Celllose acetate electrophoresis.
6	3	S-I, II SDS PAGE, Soutern blotting, Western blotting
7	3	S-I, II Northern blotting

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	S-I, II Radioisotope techniques, half life, radiodating
9	4	S-I, II Isotope dilution techniques
10	4	S-I, II GM counter, Scintillation counter
11	5	S-I, II Autoradiography, isotope dilution technique
12	5	S-I, II Application of radio isotope in biology
13	5	S-I, II Biological hazards of radiation and its safety aspects
14	12345	Revision
15	12345	Revision

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LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience
2	1	Thanking the gathering and organizing of an event Fritz karinthy - Refund (one act play) Publicity literature
3	2	Quit india - Mahatma gandhi Trust with destiny - jawaharlal Nehru
4	2	Giving one's opinion on current national /social issues Anton chekhov - The Bear (one act play) Spotting Errors
5	3	Gettysburg address _abraham lincoln I have a dream_Martin Luther king Sample news items
6	3	Preparing news items of local events and speaking about them One act play the hour of truth E_mail writing
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA EXAMINATION
9	4	Inaugural address _John. F. Kennedy Prepared to die-nelson mandela
10	4	Presentation skill Autobiography :sorrows of childhood_Charles chaplin Resume writing
11	5	Some useful expressions Biography :Marie curie_colin Mitchell
12	5	Speech writing Biography :sarojini naidu _padmini sengupta Minutes writing
13	2	Revision
14	2	II CIA EXAMINATION
15	3	Overall Revision

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBC401T : ADVANCED ZOOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Prochordata – amphioxus- Morphological details of chordates- Pisces-shark,
2	2	Amphibia -Frog, Reptiles- Calotes,
3	2	Aves- pigeon, Mammalia- Rat.
4	3	Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles.
5	3	Mendals experiments, Fine structure of Gene, Mutation, Linkage and crossing over,
6	3	Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics- Hardy Weinberg principle and its application in human population.
7	3	Genetic engineering and its applications in human being. Pedigree chart and its uses.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Gametogenesis in mammals – Spermatogenesis, Oogenesis,
9	4	Fertilization. Types of Eggs, Pattern of cleavage
10	4	Blastulataion in chick, Gastrulation.
11	4	Human Reproduction- puberty, Menstrual cycle, Menopause,
12	4	Pregnancy and related problems-parturition and lactation-
13	4	Human cloning- Ethics.
14	5	Principles and Applications of Environmental biology.
15	5	ecological succession, ecological niche,

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LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC507S : MOLECULAR BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DNA-Genetic material - Experimental proof Griffith experiment Avery et al experiment
2	2	Blender experiment Meselson and Stahl experiment
3	2	DNA polymerases Slip test-1
4	2	Replication- Introduction Initiation
5	2	Replication -elongation and termination Lecture notes given
6	3	RNA polymerase Transcription- Initiation,elongation and termination
7	3	Revision of previous topics Lecture notes given

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Transation -Initiation,elongation and termination
9	4	Post translational modification
10	4	Operon concepts
11	4	Lac operon
12	4	Trp operon
13	4	Wobble hypothesis Introduction
14	4	Revision
15	5	Revision

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LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**EBC614B : MEDICAL LABORATORY TECHNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Hematology-Intoduction
2	2	Haemoglobin estimation.WBC and RBC counting
3	2	Determination of ESR, PCV
4	2	Blood grouping,Cross matching .
5	2	Screening test-THPA and ELISA.
6	2	Screening test-hepatitis B surface Antigen.
7	4	Clinical significance of urea,uric acid, and protein

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Clinical significance of glucose ,lactate dehydrogenase.
9	4	Clinical significance of SGOT & SGPT
10	4	Clinical significance of ALP & ACP.
11	4	Clinical significance of Calcium & phosphorus.
12	4	Clinical significance of sodium & potassium.
13	4	Clinical significance of albumin & amylase.
14	1	Reagent preparation & laboratory calculations
15	4	Revision test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC509B : ENVIRONMENTAL TOXICOLOGY & HERBAL MEDICINE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Toxic substances in environment-Sources of environmental toxicants.
2	2	Routes of exposure to toxicants.
3	2	Transport of intoxicants through food chain- Bio-accumulation.
4	2	bio-magnification.Toxicology of major pesticides.
5	2	Bio-transformation.
6	2	bio-monitoring, bio-indicator and its examples.
7	2	Environmental impact of pesticides.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction of Herbs.Definition of herbs.
9	4	characterization of herbs based on plant properties.
10	4	Usage of herbs
11	4	active constituents of herbs.
12	4	Preparation of herbal medicine
13	4	. Herbs for common ailments.
14	4	. Dosage and formulation of herbs.
15	4	Revision.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**EBC613B : MEDICAL PHYSIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Respiratory system – functional anatomy of air, passages and, pulmonary ventilation, lung volumes and capacities.
2	3	Respiratory pigment, Transport of gases, oxygen dissociation curve,
3	3	Co2 transport- carbonic acid, carbamino compound, bicarbonate. Bhor effect, chloride shift.
4	3	Excretary system of man-nephran diagram and it's function. Mechanism of urine formation
5	4	nervous system-structure of neuron, types of neuron, conduction of nerve impulse, synapse, neuromuscular junction.
6	4	anatomy of the brain
7	5	muscles-ultrastructure of skeletal muscle, types of muscle.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	types of muscle contraction, theories of muscle contraction.
9	5	Contractile proteins
10	5	Molecular basis of muscle contraction
11	5	role of proteins in muscle contraction.
12	5	Muscle relaxation
13	5	revision for unit 5
14	3	revision for unit 3
15	4	revision for unit 4

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC508S : IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Innate immunity
2	1	Phagocytosis and types immune cells
3	1	Lymphocytes development b and t lymphocytes
4	1	B cell and t cell activation humoral and cellular mediated
5	1	Primary lymphoid structure and function
6	1	Secondary lymphoid organs structure and function
7	1	T and b lymphocytes cooperation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction about allergy and hypersensitive
9	4	Type 1 hypersensitive
10	4	Type 2 hypersensitive
11	4	Type 3 hypersensitive
12	4	Type 4 hypersensitive
13	4	Autoimmune disease myasthenia gravis and rheumatoid arthritis
14	4	Autoimmune disease thyrotoxicosis and sle .
15	4	Immuno tolerance

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**EBC613B : MEDICAL PHYSIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Composition Blood .
2	1	Types of blood cells , morphology and it's function .
3	1	Blood groups- ABO
4	1	Blood groups- Rh factor
5	1	Composition of Lymph
6	1	Circulatory system- Heart structure .
7	1	Cardiac cycle , Cardiac put and pace maker

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Digestive system- Structure
9	2	Chemical process of digestion
11	2	Gastric digestion- HCl secretion in stomach .
10	2	Salivary digestion
12	2	Pancreatic and Intestinal digestion
13	2	Role of bile salts in digestion
14	2	Digestion and absorption of Carbohydrates
15	2	Digestion and absorption of Proteins and Lipids

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC510A : PLANT BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Discovery and definition of plant cell, cell wall
2	1	Discovery and definition of plant. Mechanism of absorption- Ion exchange, passive absorption
3	2	Structure, biosynthesis, mode of action and physiological effects of auxins, gibberellins,
4	2	Structure, biosynthesis, mode of action and physiological effects of cytokinins and IAA.Biochemistry of seed dormancy, seed germination, fruit ripening and senescence.
5	3	Structure & synthesis of chlorophyll, phycobilins and carotenoids.
6	3	Photosynthesis: photosystem I & II, Light absorption, Hill reaction, Red drop & Emerson's enhancement effect.
7	3	. Cyclic and non-cyclic photophosphorylation, Calvin cycle, C3, C4 & CAM.Photosynthesis-factors and regulation.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Secondary metabolites in plants – classification & function of alkaloids, terpenoids,
9	4	Secondary metabolites in plants – classification & function of alkaloids, terpenoids,
10	4	Secondary metabolites in plants – classification & function of tannins, lignin and pectin.
11	4	Environmental stresses, salinity, water stress, heat, chilling and their impact on plant growth, criteria of stress tolerance.
12	5	Nitrogen fixing organisms: Structure and mechanism of action of nitrogenase: symbiosis
13	5	: Rhizobium symbiosis. Leghaemoglobin, strategies for protection of nitrogenase against the inhibitory effect of oxygen, nif genes
14	5	of Klebsiella pnemoniae and their regulation.Nitrate reductase.
15	5	mechanism of symbiotic & non symbiotic nitrogen fixation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BCP503S : MAIN PRACTICAL - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of creatinine by Jaffe's method
2	2	Estimation of urea by DiacetylMonoxime method.
3	3	estimation of Bilirubin in blood
4	5	Effect of pH on salivary amylase by dnsa method
5	6	Effect of temperature of salivary amylase by dnsa method
6	7	Effect of substrate concentration of salivary amylase by dnsa method
7	4	estimation of triglycerides

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	effect of pH on urease
9	9	effect of temperature on urease
10	10	effect of substrate concentration on urease
11	11	Estimation of gluten content in wheat flour. & Gelatinization of starch
12	12	Determination of pH density of milk & milk products. & Lipid content in food
13	13	Nutritive value of foods. & Oxidative rancidity of potato chips
14	14	Fibre in food
15	15	Iron in food

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC508S : IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Antigen properties, epitope, paratope, specificity, cross specificity, antigenicity immunogenicity
2	2	Happens, adjuvants, multivalent binding sites, antibody structure, specificity,and distribution of antibodies different classes and sub classes of immunoglobulins
3	2	Clonal selection theory and antibody diversity
4	3	Complement components and it's types
5	3	Classical pathway, lectin pathway and alternate pathway
6	3	Major histo compatability complex, structure and functions
7	3	Transplantation, graft and it's types

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mechanism of graft rejection in skin, graft versus host reaction and immunosuppressive drugs
9	5	Introduction to antigen and antibody interaction
10	5	Precipitation reaction-precipitation reaction in fluid
11	6	Precipitation reaction-precipitation reaction in gel(double and radial immuno diffusion)
12	6	Agglutination reaction-widal test and pregnancy test
13	6	Principle and applications of immuno electrophoresis
14	6	VDRL and radio immunoassay
15	6	Principle and applications of ELISA

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LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC509B : ENVIRONMENTAL TOXICOLOGY & HERBAL MEDICINE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about toxicology,
2	1	Degradable and non Degradable toxicants
3	1	Drug toxicity, mechanism of drug toxicity, receptor mediated events, acute and chronic toxicity.
4	3	LC 50,LD 50, bioassay types of bioassay and its applications.
5	3	Microbial bioassay types and its applications. Hepatotoxicity.
6	3	Nephrotoxicity and Neurotoxicity
7	3	Examples of nephrotoxicity and its impacts on kidney

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Examples of Neurotoxicity and impacts on brain
9	5	Introduction about herbal medicine - antiinflammatrory drugs curcurma longa and cardiospermum
10	5	Memory stimulants :centella asiticia and its biological functions.
11	5	Withania sominifera and its importance.
12	5	Memory stimulants :centella asiatica
13	5	Drugs for dissolving kidney stones: Musa paradiscia
14	5	Anticancer drugs:catharanthus roseus,Azardica indica
15	5	Dengue fever:papaya leaves

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LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**BC611S : MEDICAL BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about Biological samples, Specimen collection.
2	1	Anticoagulants, preservatives for blood and urine.
3	1	Transport of specimens.Normal and abnormal values of different blood parameters
4	3	Inborn errors of metabolism- phenylketonuria, alkaptonuria
5	3	Albinism cystinuria and fanconi syndrome
6	3	Exogenous and endogenous transport of lipids- chylomicron transport, VLDL transport.
7	3	Reverse cholesterol transport.Atherosclerosis, fatty liver- risk and anti-risk factors.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Liver function test-Heme catabolism- Jaundice- classification-biochemical findings
9	4	Liver function test based on bile pigments- Vandenbergh test, Detoxification-Hippuric acid test.
10	4	excretion and BSP dye test, metabolism-galactose tolerance test, Prothrombin time
11	4	Gastric function test-gastric contents, resting stage gastric analysis-stimulation test (histamine, pentagastrin) - FTM-AZURE-A test. Hypo and hyperacidity.
12	5	Renal function test-renal concentration test-PSP dye test
13	5	urea, creatinine and inulin clearance test.
14	5	Plasma enzymes-functional and non-functional enzymes,
15	5	Isoenzymes, enzyme patterns in acute pancreatitis, liver diseases and myocardial infarction.

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC507S : MOLECULAR BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	C value paradox, Cot value, organization of chromosomes and nucleosomes,
2	1	Euchromatin, heterochromatin, centromeres and telomeres, central dogma of molecular biology.
3	2	repetitive DNA-Highly repetitive,
4	2	moderately repetitive and unique DNA sequences.
5	2	Satellite DNA, Transposons.
6	3	inhibitors of transcription,
7	3	post transcriptional modification of mRNA,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Processing of tRNA and rRNA.
9	4	genetic code & features
10	4	deciphering of genetic code, wobble hypothesis,
11	4	deciphering of genetic code, wobble hypothesis,
12	5	DNA repair-photo reactivation,
13	5	Excision repair, recombination,
14	5	SOS and Mismatch repair,
15	5	Single Nucleotide Polymorphism (SNPs).

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19BC203 : BIOMOLECULES - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Classification of lipids , properties of lipids
2	1	Classification of Fatty acids
3	1	Chemical properties of lipids- Iodine number, Acid number, RM number , Saponification number and Rancidity
5	1	Sphingomyelin and Plasmalogen ,Sterols .
6	1	Glycolipids - Cerebrosides and Gangliosides
4	1	Structure and function of Phospholipids
7	1	Steroids and Carotinoids

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Structure and function of Glutathione
9	5	Structure and function of Vasoupressin
10	5	Structure and function of Insulin
11	5	Structure and function of Hemoglobin
12	5	Structure and function of Myoglobin
13	5	Structure and function of Keratins
14	5	Structure and function of Collagen
15	5	Structure and function of Lipoproteins

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALLALAAR,BHARATHI-BHARATHI THESAM
2	1	BHARATHI THASAN-ULAGAM UNNUDAIYATHU,KAVI MANI-AASIYA JOTHI
3	1	KANNATHAASAN-YESU KAAVIYAM
4	3	IRUPATHAM NOOTRAANDU KAVIZNJARGAL
5	3	SIRU KATHAIYIN THOTRAM VALARCHI
6	4	KATHAVU
7	4	KUDUMBATHIL ORU NABAR

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	VALLOTRU MIGUM MIGA IDANGAL
9	2	ABDHUL RAHUMAAN - AALAABANAI, VAIRAMUTHTHU - SUYA KOLLI
10	2	MU. METHTHAA - THESAPITHAVUKU THERU PAADAGANIN ANJALI
11	2	THAMIZHACHCHI - ENJOTTUP PENN, NATTUPURA PAADALGAL
12	3	PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM
13	3	NAATTUPPURA ILAKKIYANGAL
14	4	JAYIL - SIRUKATHAI
15	4	MINNAL, EZHUTHA MARANTHA KATHAI

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19BC102 : CELL BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cell membrane, structure and functions of fluid mosaic model, membrane protein, carbohydrate, lipid, proteins and their functions
2	1	Classification of cell, prokaryotic and eukaryotic cell
3	1	Membrane transport, types of transport,active transport and passive transport
4	1	Sodium potassium pump, calcium pump,symport,antiport and endocytosis
5	2	Liposomes, structure and functions of endoplasmic reticulum, enzymes of ER membrane
6	2	Structure, functions and chemical composition of lysosomes and ribosomes
7	3	Structure and functions of mitochondria and Golgi complex

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Structure and functions of microbodies-peroxisomes and glyoxysomes
9	4	Nucleus- structure, composition and biochemical function
10	4	Chromosome-structure, organization of chromatin,polytene and lambrush chromosome with examples
11	4	Cell cycle and phases of Cell cycle
12	4	Mitosis and meiosis cell division and it's significance
13	5	Cytoskeleton-components and biological functions
14	5	Microtubules and microfilaments-distribution, chemical composition and functions
15	5	Intermediate filaments-distribution, chemical composition and functions

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**BCP101S : MAIN PRACTICAL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Qualitative analysis of carbohydrate-glucose
2	2	Qualitative analysis of carbohydrate-fructose
3	3	Qualitative analysis of carbohydrate-lactose
4	4	Qualitative analysis of carbohydrate-maltose
5	5	Qualitative analysis of carbohydrate-arabinose
6	6	Qualitative analysis of carbohydrate-sucrose
7	7	Qualitative analysis of carbohydrate-starch

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Qualitative analysis of carbohydrate-galactose
9	9	Qualitative analysis of aminoacids
10	10	Qualitative analysis of amino acid-histidine
11	11	Qualitative analysis of amino acids-Tyrosine
12	12	Qualitative analysis of amino acids-tryptophan
13	13	Estimation of glycine by formal titration method
14	14	Estimation of Ascorbic acid
15	15	Qualitative analysis of amino acids-cysteine

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19BC101 : BIOMOLECULES - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about chemical bonds, types of bonds, primary and secondary bonds and isomerism, structural and steioisimerism with example
2	2	Introduction about carbohydrates, classification of carbohydrates, structure of glucose and fructose
3	2	Structure of glucose, properties of monosaccharides such as epimer, anomer and mutarotation
4	3	Introduction about polysaccharide. Homopolysaccharide-structural polysaccharide cell lose, pectin, chitin
5	3	Storage polysaccharide - structure and functions of starch, glycogen, inulin
6	3	Heteropolysaccharide - structure and functions of healing and hylauronic acid.
7	4	Introduction about nucleic acids.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Nucleosides, nucleotide and phosphodiester bond
9	4	Structure of DNA and its types.
10	4	Properties of DNA : denaturation, renaturation, hyperchromicity and melting temperature
11	4	Structure of RNA
12	4	Structure and functions of mRNA and rRNA
13	4	Structure and functions of tRNA
14	5	Classification of porphyrin, introduction about heterocyclic compounds
15	5	Biological importance of pteridine, pyrrole, imidazole, thiozole, indole and pyridine

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular- Thirumanthiram, thondaradipadi yazhvar thirumalai
2	1	Thirunavukkarasar thevaram, Manikkavasakar - thiruvasakam
3	1	Aandal thiruppavai, pattinathar padalkal
4	4	Sampanthar, sundhrar mattum, Aazhvargal- Mutjal Aazhvar movar mattum
5	5	Mozhi thiran Ariviyal, Aatsithurai, kanini, puzhanku porutgal kalaisol Aakkam
6	5	Mozhipeyarpu paguthi
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai - thuroga suvadugal - ve.Eraiyanbu 1-6
9	3	Thuroga suvadukal 7-10
10	3	Thuroga suvadugal 11-13
11	4	Sitrilakkiyankal thoothu, Ula, Kuravanchi, Anthathi
12	4	Islamum Thamizhum
13	2	Masthan sagipu Paraparakanni, Kumarakuruparar Pillai thamizh
14	2	Kalingathu parani, Nanthi kalambagam
15	2	Mukkudar pallu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	11	Vallalar_thiruvaruppa, Bharathiyar- Bhatayha thesam
2	2	Bharathi dhasan-Ulagam unnidaiyathu, kavimani-Aasiya jothi
3	13	Kannadhasan-Yesu kaviyam
4	3	Elakkia varalaru- Erupatham nootrandu kavithaikal
5	3	Elakkia varalaru - sikathaiyin thottramum valarchiyum
6	4	Sirukathai: kathavu - ki.Ra
7	44	Sirukathai: kudumpathil oru nabar - ki. Ra

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran - vallottu miga edam, migu midam
9	2	Puthu kavitha: Aalapanai - Abdul rahman
10	2	Puthukavithaikal: Thesapithavirku therupadagan Anjali, suyukolli - Vairamuthu
11	2	Puyhukkavithai : Enchottupen- thamizhasi, Nattupura padalkal
12	33	Elakkiya varalaru - puthukkavithaiyum thotramum varchiyum
13	3	Elkkiya varalaru - Nattupura elakkiyankal
14	4	Sirukathaikal : jail, Minnal - ki. Ra
15	44	Sirukathai : elzutha marantha kathai - ki. Ra

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**ACH202T : ANALYTICAL CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Chromatography – Types - Column chromatography
2	2	Chromatography – Thin Layer chromatography
3	2	Chromatography – Ion Exchange Chromatography
4	3	Polarography – Principle – Instrumentation
5	3	Polarography – Application of Polarography
6	3	Cyclic voltammetry – Principle – Instrumentation
7	3	Cyclic voltammetry – Application of CV

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polarimetry – Principle - Instrumentation-Application
9	3	Polarimetry – Estimation of Glucose
10	4	Rotational spectroscopy-the rotational energy levels of molecules
11	4	rotational transitions Vibrational spectroscopy – the vibrations of molecules –transitions
12	4	UV-Visible Spectroscopy-Absorption Laws-Selection Rules - Types of Electronic transitions
13	4	UV-Visible Spectroscopy – chromophore-Auxochrome-Absorption bands and Intensity
14	4	Woodward-Fieser rules for calculating ?max in Dienes compounds
15	4	Woodward-Fieser rules for calculating ?max in a,ß-unsaturated carbonyl compounds

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular - Thirumanthiram Thondaradi Podiyalvar - Thirumalai
2	1	Thirunavugarasar-Thevaram Manikkavasagar- Thiruvasagam
3	1	Andal - Thirupavai Pattinathar - Pulampal
4	4	Sampanthar, Suntharar Alvargal Muthal Alvargal Muvar Mattum
5	5	Mozhithiran -Tamilil pera Thuraigal Ariviyal Atchithurai Kanini Pulanguporul
6	5	Mozhipeyarpu kadithangal Tamil Mozhi Peyarpu
7	4	Orainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai Thuroga suvadugal - Eraianpu
9	3	Urainadai Thuroga suvadugal - Eraianpu
10	3	Urainadai Thuroga suvadugal - Eraianpu
11	4	Elakkiyavaralaru Sitrilakkiyangal - Thudu, oola, Kuravanchi,Anthathi
12	4	Elakkiyavaralaru Esulamum Tamilum
13	2	Sitrilakkiyangal Masthan Sakipu - Paraparakanni Kumarakuruparar - Pillai Tamil
14	2	Sitrilakkiyangal Kaligathu Parani -Porgalam Nanthikalampagam - Nanthivarman
15	2	Sitrilakkiyangal Mukkudar Pallu - PallargalinValam

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	2	Apologising Making Request
5	2	Audio – Video lessons
6	3	Telephonic communication / Business
7	0	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	I CIA
9	4	Building powerful vocabulary Coining related words
10	4	Acronym Mispronounced words
11	5	Extempore
12	5	Elocution
13	5	Description Narration Paragraph Writing
14	0	II CIA
15	0	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**ACH101T : ALLIED CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Thermochemistry-Units of Energy changes-Exothermic and Endothermic reactions
2	3	Heat of reaction- Different types of the heat of reaction
3	3	IonicEquilibria-pH scale-Buffer solution
4	3	Types of Buffer Solution-Calculation of pH values of Buffer mixtures-Henderson equation
5	3	Acid-Basecatalysis-Bronsted relation-Enzyme catalysis
6	3	Michales-Menton equation-Influence of pH and temperature
7	1	Chemical bonding –Types of Bonding-Bonding in Carbohydrates and Proteins

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Structure of Amino acids-Zwitter ion-Isoelectric Point – Structure of Proteins
9	4	Development of new drugs-Drug and Disease-Structure and activity
10	4	Additives and their role-Human Gene therapy
11	4	Animal and Synthetic Biotechnology
12	4	Mode of action and uses of sulpha drugs - Prontosil, sulphadiazine,and sulphafurazole
13	4	Definition and one example of analgesics, antipyretics
14	4	tranquilizers, sedatives
15	4	local and general anesthetics

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**ACH202T : ANALYTICAL CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to PURIFICATION TECHNIQUES, Crystallization
2	1	Purification of solid compounds - Fractional crystallization - Sublimation
3	1	Purification of liquids - Experimental techniques of distillation
4	1	Purification of liquids - Fractional distillation
5	1	Purification of liquids - Vacuum distillation
6	1	Purification of liquids - Steam distillation
7	3	Cyclic voltammetry – Principle

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cyclic voltammetry – Instrumentation - Application of CV
9	5	Water quality parameters
10	5	Temporary and Permanent hardness
11	5	Estimation of hardness (EDTA method)
12	5	Water softening (Zeolite)
13	5	Demineralization (Ion Exchange)
14	5	Desalination (RO)
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**ACHP101 : ALLIED CHEMISTRY PRACTICAL - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Qualitative organic analysis
2	1	Qualitative organic analysis
3	1	Qualitative organic analysis
4	1	Qualitative organic analysis
5	1	Qualitative organic analysis
6	1	Qualitative organic analysis
7	1	Qualitative organic analysis

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Qualitative organic analysis
9	1	Qualitative organic analysis
10	1	Qualitative organic analysis
11	1	Qualitative organic analysis
12	1	Qualitative organic analysis
13	1	Qualitative organic analysis
14	1	Qualitative organic analysis
15	1	Qualitative organic analysis

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LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sounds - consonants Meeting people, Exchanging greetings and taking leave Introduce people to others Robert lynd - Forgetting
2	1	Letter writing informal letter The sentence Parts of speech Speech sounds-pure vowels
3	2	Giving personal information Talking about people Poem :Mending wall-Robert frost Letter writing - formal letter
4	2	Nouns classes and gender Nouns Number and case Adjectives Comparison of adjectives
5	3	Diphthongs Taking and leaving messages Making enquiries on the phone Time and love poem _William shakespeare Dialogue writing
6	3	Articles Pronouns_personal, reflexive and Emphatic Pronouns _demonstrative, indefinite, interrogative, distributive and Reciprical Pronouns_Relative
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA EXAMINATION
9	4	Prose:Mother Teresa-john Frazer Phonetic Transcription Answering the Telephone and asking for someone
10	4	One act play :The best laid plans_Farrel Mitchell Verbs _transitive and intransitive Verbs - active and passive voice
11	5	Voiced and voiceless sounds Dealing with a wrong number Short story:The selfish giant _Oscar wilde
12	5	Reading comprehension Verbs_Mood and tense Concord or agreement of the verb with the subject
13	2	Slip test/Revision
14	2	II CIA EXAMINATION
15	2	Overall Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs 1.making request and responding to request 2.thanking someone and responding to thanks Precis writing
2	1	Prose : how to be a doctor - Stephen leacock Non-finite verbs Strong and week verbs The auxiliaries
3	2	Strong and weak forms in transcription 1.inviting accepting and refusing an invitation 2.apologising and responding to an apology
4	2	Poem: auguries of innocence -William Blake Note making Use of wrong prepositions Unnecessary use of articles
5	3	The relationship between spelling and sound Paying compliment showing appreciation offering encouragement and responding to them
6	3	Prose : my visions for India - A.P.J. ABDUL KALAM Report writing Punctuation and capital
7	1	I CIA- Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Sentence Transcription Punctuation and capitals
9	4	Poem: IF - Rudyard Kipling Paragraph writing Personal details
10	4	One -act Play : The Merchant of Venice - William Shakespeare -Trial for a pound of Flesh
11	5	Transcribing short passages Asking for Directions and Giving Directions
12	5	Biography : Kiran Bedi - parmesh dangwal
14	2	II -CIA Examination
15	3	Revision
13	5	1.use of wrong tenses 2.The uses of prefixes and suffixes

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LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BC304S : ANALYTICAL BIOCHEMISTRY - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to Analytical Biochemistry paper and its outline
2	3	Introduction to spectroscopy Principles of Electromagnetic radiation
3	3	Electromagnetic spectrum Beer-Lambert's Law
4	3	UV-Visible spectroscopy- Principle,Instrumentation and applications
5	3	IR & FTIR - Introduction
6	3	FTIR-Principle,Instrumentation and applications
7	4	Atomic absorption spectroscopy- introduction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Atomic absorption spectroscopy- Principle and instrumentation
9	4	Atomic absorption spectroscopy- working and advantageous
10	4	Atomic absorption spectroscopy- Applications
11	5	Centrifugation-Introduction
12	5	Analytical Centrifugation- Principle & importance
13	5	Analytical Centrifugation- instrumentation and applications
14	5	Revision
15	4	Revision

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LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**BCP402S : MAIN PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	Preparation of casein from the milk
2	5	Preparation of lactalbumin from the milk
3	5	Preparation of albumin from the egg
4	1	Preparation of buffer
5	2	Food and biochemical analysis
6	3	Colorimetric analysis-Estimation of protein by Biuret method
7	3	Estimation of phosphorous

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Estimation of DNA
9	3	Estimation of RNA
10	6	Estimation of iron
11	6	Estimation of Copper
12	6	Estimation of oxalate
13	6	Estimation of potassium dichromate and calcium
14	6	Biochemical analysis & separation of amino acid by paper chromatography
15	6	Revision and model practical

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LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BC303S : ENZYMES**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	MM EQUATIONS .Significance of Km.Vmax.ifferent types of inhibitors.
2	2	Suicidal inhibitors.L.B plot.Eadie Hofstee plot.Reversible and iirversible inhibitors
3	3	Allosterism, nature of allosteric enzymes, sigmopidal curve.
4	3	Mode of action--Sequential,symmetry model.
5	3	Allosteric inhibition.eg;Aspartate trans carbomylase and Phospo fructo kinase,
6	3	Mechanism of enzyme action without cofactors--Chymlotrypsin
7	4	Chemical nature of enzyme catalyst--introduction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Acid base catalyst,covalant catalyst, metal ipon catalyst.
9	4	proximity and orientation effect
10	4	Coenzymes- NAD+. NADP+, FMN, &FAD+.
11	4	Coenzymes,--CoA, TPP.-- physiologicl Functions
12	5	Purificatin of enzymes.--Molecular seiving method
13	5	Purification of enzymes-Affinity chromatography
14	3	Revision test
15	4	Revision test

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LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BCP302S : MAIN PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	6	Volumetric analysis of iron
2	6	Volumetric analysis of potassium dihromate,
3	6	preparation of starch
4	6	Volumetric analysis of copper.
5	6	Colorimetric estimation of protein by Biuret method
6	4	Estimation of phosphorous
7	4	Estimation ofDNA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Estimation of RNA
9	4	Amino acids
10	5	Casein from milk
11	5	Preparation of albumin from Egg
12	6	Estimation of oxalate
13	1	Preparation of buffer,biochemical analysis
14	0	Model practical
15	0	Semester practical

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBC401T : ADVANCED ZOOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit: 1 INVERTEBRATES AND CHORDATES- Structural and functional details of phylum–Protozoa-
2	1	Plasmodium vivox,
3	1	Helminthes-Taenia solium,
4	1	Annelida-Earthworm- Digestive system,
5	1	Prochordata – amphioxus- Morphological details of chordates-
6	1	Pisces-shark, Amphibia -Frog,
7	1	Reptiles- Calotes, Aves- pigeon,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Mammalia- Rat.
9	5	Unit: 5 ECOLOGY AND EVOLUTION- Principles and Applications of Environmental biology.
10	5	ecological succession, ecological niche,
11	5	Animal relationships, Interspecific-
12	5	Antagonism, symbiosis,
13	5	Parasitism, Mutualism,
14	5	commensalisms. Fossil and Fossilization,
15	5	Dating of Fossils, Geological timescale.

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Silappathigaram
2	2	Manimegalai
3	3	5 Perum kapiyangal
4	4	Sirukapiyangal , sozerkala kapiyangal
5	5	Seevagasinthamani
6	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savai Maiya Aluvaler
7	5	Surtula Vazikati Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Pothukaturai
9	2	Kambaramayanam - Angathan Thoothu Padalam
10	3	Periya Puranam - Kalarsinga Nayanar Puranam
11	3	Ratchanya Yathirigam - Siluvai Padugal
12	3	Seera Puranam - Puli Vasanitha Padalam
13	4	ILakiya Varalaru - Chiruthuva Kapiyangal
14	4	ILakiya Varalaru - Chiruthuva Kapiyangal
15	4	Ilakiya Varalaru - Ilam Kapiyangal

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LESSON PLAN

Name of the Staff	**DEVASENA J Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1Purananuru padal no 183,192 1.2Agananuru padal _02,104 1.3Kurunthogai padal 3,40 1.4 Narrinai Padal149,110
2	1	1.5.Igkurunuru _vatgaipathu1-5
3	1	1.6Kalithogai-palaikali 9,11 1.7Paripadal Thimal3pal
4	4	4.1Ilakkiya varalaru
5	4	4.5Kizkanakil Neethi Nolgal
6	3	3.1Ariudami 3.2 Natpo araythl
7	3	3.3Polavinunukam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran 5.1Pattirigaikalil seithi varaithl 5.2 churiki varathal
9	5	Narkanal
10	4	Pathuppatu
11	2	Nadanalvadai1-62
12	2	Nadanalvadai1-62
13	2	Cipanartupadi kadai azuvallagal
14	2	Mathraikanchi
15	2	Mullai patu padarai oyapu

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LESSON PLAN

Name of the Staff	**ARUNA KRITHIKA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**19AOA301 : OFFICE AUTOMATION & DESIGNING**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Microsoft Office: Overview of the Office components (Word, Excel, Power Point, Access)–Identifying Common Screen Elements – Exiting a Program.
2	1	Common Office Tools and Techniques: Switching from one application to another – Sizing and Arranging Windows – Working with Menus –
3	1	Working with Dialog Boxes – Working with Toolbars .- Using the Clipboard to cut, copy and paste.
4	2	Starting Word: Starting a New Document – Opening an Existing File – Saving a Document – Printing a Document – Closing a Document. Word Basics :–Typing Text – Inserting, Selecting and Deleting Text – Using Undo and Redo – Inserting Specia...
5	2	Formatting Characters (Changing Fonts and Font Sizes, Applying Bold, Italic or Underline, Changing Text Case – Drop Caps) – Margins & Gutters
6	2	Working with Bulleted or Numbered Lists – Aligning Text – Borders and Shading - Formatting Paragraphs – Line Spacing
7	3	Working with AutoCorrect and AutoFormat: Using Find and Replace – Correcting Spelling and Grammatical Errors – 3

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Working with Headers and Footers – Working with Tabs - Working with Tables.3
9	3	Working with Graphics: Importing Graphics – ClipArt Gallery – Drawing Objects.
10	4	Using Excel: Creating s Simple Spreadsheet
11	4	Editing a Spreadsheet – Working with Functions and Formulas
12	4	– Formatting Worksheets – Creating Charts.
13	5	Using PowerPoint: Creating & Viewing Presentations
14	5	Editing a Presentation
15	5	Working with Presentation Special Effects.

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURANAANOORU, ---- PAADAL-183, 192. AGANAANOORU,,02,-& 104 KURUNTHOGAI---- 03&40
2	1	NATRINAI-110 & 149 INGURUNOORU------ VEITKAI 10,1 TO 5 KALITHOGAI--------- PAALAIKALI 9 & 11
3	1	PARIPADAL-------- THIRUMAAL
4	3	THIRUKURAL ATHIGARAM ARIVUDAMAI
5	3	THIRUKUAL ATHIGARAM NATPUAARAITHAL, PUALAVI NUNUKAM
6	4	ILAKIYAVARALAARU,: ETTUTHOGAI NOOLGAL
7	4	PATHINEN KIZHKANAKKIL NEETHI NOOLGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN PATHRIGAIGALIL SEITHI VARAITHAL
9	5	SURUKI VARAITHAL, NER KAANAL
10	2	NEDUNAL VAADAI 1-30 LINES
11	2	NEDUNAL VAADAI 31-62 LINES KULIRKAALA VARNANAI
12	2	SIRUPAANAATRU PADAI
13	2	MADURAI KANCHI
14	2	MULLAI PAATTU
15	4	PATHUPAATU NOOLGAL

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LESSON PLAN

Name of the Staff	**Dr. P. Indhu Sakthi**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock Interview. Actual Interviews. Facing an Interview. Tele - Interviews.
2	1	Drama - Julius Caesar by William Shakespeare. Novel - The Count of Monte Cristo chapter (1-10) . Description.
3	2	Words often confused. Seminar Skills. Drama - Macbeth by William Shakespeare.
4	2	Novel - The count of Monte Cristo chapter-(11-20) Idioms and phrases.
5	3	Homonyms and similar words. Tele - conferences. Handling customers or clients.
6	3	Receiving Visitors. Drama - Henry IV by William Shakespeare. Novel - The count of Monte Cristo chapter (21-25).
7	3	Novel - The count of Monte Cristo chapter (26-30). The use of Graphics.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA Exam
9	4	Homophones. Booking Hotel Accommodation. Making small talk and Telling Stories.
10	4	Drama - As you like It by William Shakespeare. Novel - The count of Monte Cristo chapter(31-35).
11	4	Negotiations. Novel - The count of Monte Cristo chapter (36-40).
12	5	Group Discussions. Making Appointments. Cancelling and Rescheduling.
13	5	Drama - Hamlet by William Shakespeare. Novel - The count of Monte Cristo chapter (41-49). Writing Review of Books.
14	0	II CIA Exam
15	0	REVISION

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**RAMAKRISHNAN R Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	Water resources: over – utilization, floods, drought – mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging,
3	1	Salinity – energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics
6	2	Structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
9	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
10	4	Solid waste management: causes, effects, control measures and disposal of wastes
11	4	Disaster management: floods, earthquakes, cyclone, land slides and tsunami
12	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution
13	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation
14	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness
15	5	Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBP401 : ADVANCED ZOOLOGY PRACTICAL**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
2	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
3	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
4	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
5	1	MAJOR PRACTICALS 1. Dissection of digestive system and body setae in earthworm. 2. Prawn- Appendages 3. Estimation of Unit metabolism of fish
6	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
7	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
9	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
10	2	MINOR PRACTICALS 1. Squash preparation of onion root tip for mitosis. 2. Human pedigree construction for a family data. 3. Mouth parts- Honey bee and Mosquito.
11	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
12	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
13	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
14	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.
15	3	SPOTTERS T.S. of Chick embryo- 24hrs, 48hrs, 72hrs and 96hrs, Taenia solium, Placoid scale, T.S. of Pituitary gland, Adrenal gland, Thyroid gland, Testis and Ovary.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	BIODIVERISTY INTRODUCTION
2	3	BIODVERSITY SPECIES
3	3	Value of biodiversity, India as a mega diversity nation
4	3	Threats to biodiversity
5	3	Ethical value, Aesthetic value and optional value of biodiversity
6	3	Plant diversity, Biodiversity hotspots, Insitu and Exsitu Biodiversity
7	5	S-I Water conservation, rain water harvesting, watershed management

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
9	5	Nuclear accidents and holocaust – wasteland reclamation
10	5	Environment protection Act
11	5	Wild life protection act, forest conservation act, pubic awareness
12	5	Population explosion, environment and human health
13	5	Role of information technology in environment and human health
14	5	Revision
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**BCP402S : MAIN PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	S-I, II Estimation of RNA
2	4	S-I, II Isolation of Starch from potato Separation of casein from milk
3	4	S-I Preparation of albumin from egg S-II Estimation of copper
4	4	S-I, II Preparation of buffer and normal saline
5	4	S-I, II Preparation of agar agar, Paper chromatography,
6	4	S-I, II thin layer chromatography, SDS demostration
7	4	S-I Paper chromatography

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	S-I, II Thin layer chromatography, SDS PAGE
9	4	S-I, II Food analysis
10	4	S-I, II Model practical examination I (batch I)
11	4	S-I, II Model practical examination I (batch II)
12	4	S-I, II Model practical examination II (batch I)
13	4	S-I, II Model practical examination II (batch II)
14	4	Revision
15	4	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BC304S : ANALYTICAL BIOCHEMISTRY - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Shift I & II: Units of measurements, colloids and Properties of colloids, osmosis
2	1	Shift I & II: Viscosity and its significance in biology, surface tension and factors affecting surface tension
3	2	Shift I & II: Electrochemical techniques, principles of electrochemical techniques pH, pOH, buffer
4	2	Shift I & II: Buffers in body fluids, red blood cells and tissues
5	2	Shift I & II: Measurement of pH using indicator – Glass electrode and principles of oxygen electrode
6	2	Shift I & II: Oxygen electrode working and application of clark's electrode
7	34	Shift I: Unit (3): Electromagnetic radiation: Basic principles of electromagnetic radiation, energy, wavelength, wave number, frequency, absorption and emission spectra. Shift II: Unit (4): Fluorescence and phosphorescenceprinciples of spectrophoto..

Cycle	Unit	Topics to be covered / Activity to be carried out
8	34	Shift I: Unit (3): Beer Lambert law, light absorption and its transmittance. Shift II: Unit (4): Instrumentation and application of spectrophotometry (vitamin assays (riboflavin and thiamine).
9	34	Shift I: Unit (3): Infrared spectroscopy principle, instrumentation and its application. Shift II: Unit (4): Flame photometry-principle, instrumentation and applications in trace elements (Na+, K+ analysis).
10	45	Shift II: Unit (4): Principles, instrumentation and applications of Atomic Absorption Spectrophotometer with one example. Shift I: Unit (5): Centrifugation techniques, basic principles, types of centrifugation and types of rotors.
11	5	Shift I & II: Unit (5): Sedimentation rate, Svedberg unit, preparative centrifugation -differential centrifugation.
12	5	Shift I & II: Unit (5): Density gradient centrifugation
13	5	Shift I & II: Unit (5): Analytical ultracentrifugation techniques, determination of molecular weight of proteins.
14	123	Revision
15	45	Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**BC406S : ANALYTICAL BIOCHEMISTRY - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	S-I, II Paper chromatography, TLC , column chromatography
2	2	S-I, II Gas liquid chromatography, ion exchange chromatography
3	2	S-I, II Affinity chromatography, Molecular sieve chromatography, HPLC
4	2	S-I, II Revere Phase chromatography, electrophoresis, factors affecting electrophoretic mobility
5	3	S-I, II Tisellius moving boundary electrophoresis, Paper electrophoresis, Celllose acetate electrophoresis.
6	3	S-I, II SDS PAGE, Soutern blotting, Western blotting
7	3	S-I, II Northern blotting

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	S-I, II Radioisotope techniques, half life, radiodating
9	4	S-I, II Isotope dilution techniques
10	4	S-I, II GM counter, Scintillation counter
11	5	S-I, II Autoradiography, isotope dilution technique
12	5	S-I, II Application of radio isotope in biology
13	5	S-I, II Biological hazards of radiation and its safety aspects
14	12345	Revision
15	12345	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**BCP302S : MAIN PRACTICAL - II**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Estimation of oxalate
2	2	Estimation of Ferrous ion
3	2	Estimation of copper
4	2	Estimation of potassium dichromate
5	2	Preparation of starch from potato
6	2	Colorimetric estimation of Protein by Biuret Method
7	2	Colorimetric estimation of Phosphorus

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Colorimetric estimation of DNA
9	2	Preparation of casein form skimmed milk
10	2	Preparation of abumin form skimmed milk
11	2	Preparation of lactalbumin form skimmed milk
12	2	Preparation of starch potato
13	2	Estimation of chloride
14	2	Preparation of buffer
15	2	Preparation of normal saline

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LESSON PLAN

Name of the Staff	**SHEELA**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**AMBC302 : ALLIED MICROBIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – History and scope of Microbiology.
2	1	shape and Size of bacterial Cells-structure of bacterial cell
3	1	Structure of Bacterial Cell organelles ,(Cell Wall, Structure found outside of the cell wall and within the cell wall)- Structure of Endospore
4	2	Microscopy – Simple, Compound , Dark Field , phase contrast, Fluorescent, Electron Microscopes,
5	2	Staining – Classification Microorganisms – Haeckel's , Whitaker's – Prokaryotes and Eukaryotes ,
6	2	Taxonomical Ranks – Binomial nomenclature – Characteristics used in Taxonomy .
7	3	Sterilization – Physical Agents – Moist Heat , Dry Heat , Radiation, Filtration- –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Chemical Agents – Phenols and Phenolic Compounds , Alcohols , Gaseous Agents
9	3	Antibiotics- Classification , Mode of Action – Antifungal and Antiviral Agents – Examples .
10	4	Motility of Bacteria – Nutrient Requirement of Microorganism - Growth Factors .
11	4	Nutritional Types- Culture media – Pure culture – Microbial Growth – Growth Curve
12	4	Measurement of Microbial Growth – Continuous Culture – Environment Factors Affecting Growth – Bacterial Reproduction.
13	5	Brief description of important Group of bacteria – Archaebacteria, Spirochetes , Mycoplasma , Actinomycetes.
14	5	Photosynthetic bacteria , Cyanobacteria, Methanogenic bacteria , Sulfur utilizing bacteria – General Characteristics of Algae.
15	5	, Fungi, Protozoa and Viruses – Human Disease and the pathogen Involved – Role of Microorganisms in the Environment .

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBC401T : ADVANCED ZOOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Prochordata – amphioxus- Morphological details of chordates- Pisces-shark,
2	2	Amphibia -Frog, Reptiles- Calotes,
3	2	Aves- pigeon, Mammalia- Rat.
4	3	Histological techniques – Fixation- selective fixatives- Embedding- Sectioning and Staining Principles.
5	3	Mendals experiments, Fine structure of Gene, Mutation, Linkage and crossing over,
6	3	Eugenics, Human chromosome, Chromosome number, Idiogram. Population genetics- Hardy Weinberg principle and its application in human population.
7	3	Genetic engineering and its applications in human being. Pedigree chart and its uses.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Gametogenesis in mammals – Spermatogenesis, Oogenesis,
9	4	Fertilization. Types of Eggs, Pattern of cleavage
10	4	Blastulataion in chick, Gastrulation.
11	4	Human Reproduction- puberty, Menstrual cycle, Menopause,
12	4	Pregnancy and related problems-parturition and lactation-
13	4	Human cloning- Ethics.
14	5	Principles and Applications of Environmental biology.
15	5	ecological succession, ecological niche,

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**AZBP401 : ADVANCED ZOOLOGY PRACTICAL**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MAJOR PRACTICALS Dissection of digestive system in earthworm.
2	1	Dissection of body setae in earthworm.
3	1	Prawn- Appendages
4	1	Estimation of Unit metabolism of fish.
5	1	Estimation of Unit metabolism of fish.
6	2	Squash preparation of onion root tip for mitosis.
7	2	Human pedigree construction for a family data.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Mouth parts- Honey bee
9	2	Mouth parts-Mosquito.
10	3	T.S. of Chick embryo- 24hrs, 48hrs,
11	3	T.S. of Chick embryo-72hrs and 96hrs,
12	3	Taenia solium, Placoid scale,
13	3	T.S. of Pituitary gland,
14	3	Adrenal gland, Thyroid gland,
15	3	Testis and Ovary.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC507S : MOLECULAR BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DNA-Genetic material - Experimental proof Griffith experiment Avery et al experiment
2	2	Blender experiment Meselson and Stahl experiment
3	2	DNA polymerases Slip test-1
4	2	Replication- Introduction Initiation
5	2	Replication -elongation and termination Lecture notes given
6	3	RNA polymerase Transcription- Initiation,elongation and termination
7	3	Revision of previous topics Lecture notes given

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Transation -Initiation,elongation and termination
9	4	Post translational modification
10	4	Operon concepts
11	4	Lac operon
12	4	Trp operon
13	4	Wobble hypothesis Introduction
14	4	Revision
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**EBC614B : MEDICAL LABORATORY TECHNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Hematology-Intoduction
2	2	Haemoglobin estimation.WBC and RBC counting
3	2	Determination of ESR, PCV
4	2	Blood grouping,Cross matching .
5	2	Screening test-THPA and ELISA.
6	2	Screening test-hepatitis B surface Antigen.
7	4	Clinical significance of urea,uric acid, and protein

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Clinical significance of glucose ,lactate dehydrogenase.
9	4	Clinical significance of SGOT & SGPT
10	4	Clinical significance of ALP & ACP.
11	4	Clinical significance of Calcium & phosphorus.
12	4	Clinical significance of sodium & potassium.
13	4	Clinical significance of albumin & amylase.
14	1	Reagent preparation & laboratory calculations
15	4	Revision test

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LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC509B : ENVIRONMENTAL TOXICOLOGY & HERBAL MEDICINE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Toxic substances in environment-Sources of environmental toxicants.
2	2	Routes of exposure to toxicants.
3	2	Transport of intoxicants through food chain- Bio-accumulation.
4	2	bio-magnification.Toxicology of major pesticides.
5	2	Bio-transformation.
6	2	bio-monitoring, bio-indicator and its examples.
7	2	Environmental impact of pesticides.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction of Herbs.Definition of herbs.
9	4	characterization of herbs based on plant properties.
10	4	Usage of herbs
11	4	active constituents of herbs.
12	4	Preparation of herbal medicine
13	4	. Herbs for common ailments.
14	4	. Dosage and formulation of herbs.
15	4	Revision.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**EBC613B : MEDICAL PHYSIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Respiratory system – functional anatomy of air, passages and, pulmonary ventilation, lung volumes and capacities.
2	3	Respiratory pigment, Transport of gases, oxygen dissociation curve,
3	3	Co2 transport- carbonic acid, carbamino compound, bicarbonate. Bhor effect, chloride shift.
4	3	Excretary system of man-nephran diagram and it's function. Mechanism of urine formation
5	4	nervous system-structure of neuron, types of neuron, conduction of nerve impulse, synapse, neuromuscular junction.
6	4	anatomy of the brain
7	5	muscles-ultrastructure of skeletal muscle, types of muscle.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	types of muscle contraction, theories of muscle contraction.
9	5	Contractile proteins
10	5	Molecular basis of muscle contraction
11	5	role of proteins in muscle contraction.
12	5	Muscle relaxation
13	5	revision for unit 5
14	3	revision for unit 3
15	4	revision for unit 4

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**BCP603S : MAIN PRACTICAL - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of Creatinine
2	2	Estimation of Urea
3	3	Estimation of Triglycerides
4	4	Estimation of Bilirubin in blood
5	5	Estimation of Uric acid
6	6	Effects of pH in Salivary amylase
7	7	Effects of Temperature in Salivary amylase

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Effects of Substrate Concentration of in Salivary amylase
9	9	Effects of Substrate Concentration in Urease
10	10	TLC- Amino Acids and Carbohydrates
11	11	Food and Biochemical Analysis - Gluten content in Wheat Flour, Gelatinization of Starch, pH and Density of milk and milk products
12	12	Lipids Content in Food . Nutritive value of Foods .
13	13	Fibre in food , Rancidity of Potato Chips .
14	14	Iron in Food
15	15	Food additives and adulteration

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC508S : IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Innate immunity
2	1	Phagocytosis and types immune cells
3	1	Lymphocytes development b and t lymphocytes
4	1	B cell and t cell activation humoral and cellular mediated
5	1	Primary lymphoid structure and function
6	1	Secondary lymphoid organs structure and function
7	1	T and b lymphocytes cooperation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction about allergy and hypersensitive
9	4	Type 1 hypersensitive
10	4	Type 2 hypersensitive
11	4	Type 3 hypersensitive
12	4	Type 4 hypersensitive
13	4	Autoimmune disease myasthenia gravis and rheumatoid arthritis
14	4	Autoimmune disease thyrotoxicosis and sle .
15	4	Immuno tolerance

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**EBC613B : MEDICAL PHYSIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Composition Blood .
2	1	Types of blood cells , morphology and it's function .
3	1	Blood groups- ABO
4	1	Blood groups- Rh factor
5	1	Composition of Lymph
6	1	Circulatory system- Heart structure .
7	1	Cardiac cycle , Cardiac put and pace maker

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Digestive system- Structure
9	2	Chemical process of digestion
11	2	Gastric digestion- HCl secretion in stomach .
10	2	Salivary digestion
12	2	Pancreatic and Intestinal digestion
13	2	Role of bile salts in digestion
14	2	Digestion and absorption of Carbohydrates
15	2	Digestion and absorption of Proteins and Lipids

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BCP503S : MAIN PRACTICAL - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of urea
2	2	Estimation of creatinine
3	3	Chromatography separation amino Acids carbohydrates , leaf pigments
4	4	Effect of pH on salivary amylase activitiy
5	5	Effect of temperature on salivary amylase activitiy
6	6	Effect of substrate concentration on salivary amylase
7	7	Effect of pH on the activity of urease

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Effect of temperature on urease
9	9	Effect of substrate concentration on urease
10	10	Estimation of gluten , gelatinisation of strach
11	11	Determination pH density of milk and milk products, lipid content in food
12	12	Nutritive value of foods
13	13	Oxidative rancidity of potato chips
14	14	Fibre in food and iron in food
15	15	Food additives and adulterants

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC510A : PLANT BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Discovery and definition of plant cell, cell wall
2	1	Discovery and definition of plant. Mechanism of absorption- Ion exchange, passive absorption
3	2	Structure, biosynthesis, mode of action and physiological effects of auxins, gibberellins,
4	2	Structure, biosynthesis, mode of action and physiological effects of cytokinins and IAA.Biochemistry of seed dormancy, seed germination, fruit ripening and senescence.
5	3	Structure & synthesis of chlorophyll, phycobilins and carotenoids.
6	3	Photosynthesis: photosystem I & II, Light absorption, Hill reaction, Red drop & Emerson's enhancement effect.
7	3	. Cyclic and non-cyclic photophosphorylation, Calvin cycle, C3, C4 & CAM.Photosynthesis-factors and regulation.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Secondary metabolites in plants – classification & function of alkaloids, terpenoids,
9	4	Secondary metabolites in plants – classification & function of alkaloids, terpenoids,
10	4	Secondary metabolites in plants – classification & function of tannins, lignin and pectin.
11	4	Environmental stresses, salinity, water stress, heat, chilling and their impact on plant growth, criteria of stress tolerance.
12	5	Nitrogen fixing organisms: Structure and mechanism of action of nitrogenase: symbiosis
13	5	: Rhizobium symbiosis. Leghaemoglobin, strategies for protection of nitrogenase against the inhibitory effect of oxygen, nif genes
14	5	of Klebsiella pnemoniae and their regulation.Nitrate reductase.
15	5	mechanism of symbiotic & non symbiotic nitrogen fixation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC508S : IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Antigen properties, epitope, paratope, specificity, cross specificity, antigenicity immunogenicity
2	2	Happens, adjuvants, multivalent binding sites, antibody structure, specificity,and distribution of antibodies different classes and sub classes of immunoglobulins
3	2	Clonal selection theory and antibody diversity
4	3	Complement components and it's types
5	3	Classical pathway, lectin pathway and alternate pathway
6	3	Major histo compatability complex, structure and functions
7	3	Transplantation, graft and it's types

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mechanism of graft rejection in skin, graft versus host reaction and immunosuppressive drugs
9	5	Introduction to antigen and antibody interaction
10	5	Precipitation reaction-precipitation reaction in fluid
11	6	Precipitation reaction-precipitation reaction in gel(double and radial immuno diffusion)
12	6	Agglutination reaction-widal test and pregnancy test
13	6	Principle and applications of immuno electrophoresis
14	6	VDRL and radio immunoassay
15	6	Principle and applications of ELISA

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BCP504S : MAIN PRACTICAL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimations of glucose by OT method
2	2	Estimations of protein by Lowry's method
3	3	Estimations of cholesterol by Zak's method
4	4	Assay of activity of alkaline phosphatase
5	5	Assay of activity of acid phosphatase
6	6	Estimation of SGOT
7	7	Estimation of SGPT

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Estimation of albumin and globulin ratio in serum
9	9	Haematology-RBC count
10	10	Haematology-Erythrocyte sedimentation rate
11	11	Total and differential WBC count
12	12	Haematology-Blood grouping
13	13	Haematology-Blood pressure measuring
14	14	Haematology-Bleeding time
15	15	Haematology-clotting time

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC509B : ENVIRONMENTAL TOXICOLOGY & HERBAL MEDICINE**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about toxicology,
2	1	Degradable and non Degradable toxicants
3	1	Drug toxicity, mechanism of drug toxicity, receptor mediated events, acute and chronic toxicity.
4	3	LC 50,LD 50, bioassay types of bioassay and its applications.
5	3	Microbial bioassay types and its applications. Hepatotoxicity.
6	3	Nephrotoxicity and Neurotoxicity
7	3	Examples of nephrotoxicity and its impacts on kidney

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Examples of Neurotoxicity and impacts on brain
9	5	Introduction about herbal medicine - antiinflammatrory drugs curcurma longa and cardiospermum
10	5	Memory stimulants :centella asiticia and its biological functions.
11	5	Withania sominifera and its importance.
12	5	Memory stimulants :centella asiatica
13	5	Drugs for dissolving kidney stones: Musa paradiscia
14	5	Anticancer drugs:catharanthus roseus,Azardica indica
15	5	Dengue fever:papaya leaves

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**BC611S : MEDICAL BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about Biological samples, Specimen collection.
2	1	Anticoagulants, preservatives for blood and urine.
3	1	Transport of specimens.Normal and abnormal values of different blood parameters
4	3	Inborn errors of metabolism- phenylketonuria, alkaptonuria
5	3	Albinism cystinuria and fanconi syndrome
6	3	Exogenous and endogenous transport of lipids- chylomicron transport, VLDL transport.
7	3	Reverse cholesterol transport.Atherosclerosis, fatty liver- risk and anti-risk factors.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Liver function test-Heme catabolism- Jaundice- classification-biochemical findings
9	4	Liver function test based on bile pigments- Vandenbergh test, Detoxification-Hippuric acid test.
10	4	excretion and BSP dye test, metabolism-galactose tolerance test, Prothrombin time
11	4	Gastric function test-gastric contents, resting stage gastric analysis-stimulation test (histamine, pentagastrin) - FTM-AZURE-A test. Hypo and hyperacidity.
12	5	Renal function test-renal concentration test-PSP dye test
13	5	urea, creatinine and inulin clearance test.
14	5	Plasma enzymes-functional and non-functional enzymes,
15	5	Isoenzymes, enzyme patterns in acute pancreatitis, liver diseases and myocardial infarction.

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LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BCP503S : MAIN PRACTICAL - III**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of urea by diacetyl monoxime method
2	2	Estimation of creatinine by jaffes method
3	3	Effect of ph on salivery amylase
4	4	Effect of temperature on salivery amylase
5	5	Effect of substrate concentration on salivery amylase
6	6	Effect of ph on urease
7	7	Effect of temperature on urease

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Effect of substrate concentration on urease
9	9	Effect of specific activity on urease
12	12	Gelatinization of starch
13	13	Estimation of gluten
14	14	Determination of pH of milk
15	15	Determination of pH milk products
10	10	Estimation of bilirubin
11	11	Estimation of triglycerides.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BCP504S : MAIN PRACTICAL - IV**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of glucose by orthotoluidine method
2	2	Estimation of protein by lowrys method
3	3	Estimation of cholesterol by zaks method
4	4	Assay of alkaline phosphatase in serum
5	5	Assay of activity of acid phosphatase
6	6	Estimation of a/G ratio in serum
7	7	Estimation of SGOT

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Estimation of SGPT
9	9	Erythrocyte sedimentation rate
10	10	RBC count
11	11	WBC count
12	12	Estimation of hemoglobin
13	13	Bleeding time
14	14	Blood grouping.
15	15	Clotting time and blood pressure measuring.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**BC507S : MOLECULAR BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	C value paradox, Cot value, organization of chromosomes and nucleosomes,
2	1	Euchromatin, heterochromatin, centromeres and telomeres, central dogma of molecular biology.
3	2	repetitive DNA-Highly repetitive,
4	2	moderately repetitive and unique DNA sequences.
5	2	Satellite DNA, Transposons.
6	3	inhibitors of transcription,
7	3	post transcriptional modification of mRNA,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Processing of tRNA and rRNA.
9	4	genetic code & features
10	4	deciphering of genetic code, wobble hypothesis,
11	4	deciphering of genetic code, wobble hypothesis,
12	5	DNA repair-photo reactivation,
13	5	Excision repair, recombination,
14	5	SOS and Mismatch repair,
15	5	Single Nucleotide Polymorphism (SNPs).

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**6**
Subject	**BC612S : BIOTECHNOLOGY & GENETIC ENGINEERING**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Animal cell culture- requirements, sterilization &applications.
2	2	Culture media-natural and artificial, properties& use of serum and serum-free media
3	2	cell adhesion molecules. Primary cell culture-mechanical disaggregation, enzymatic disaggregation
4	2	and primary explants technique (brief description).Cell lines-finite and continuous. Subculture-
5	2	mono layer and suspension cultures. Transformation of cell-characteristics, types of culture process-batch, fed batch,
6	2	semi-continuous, continuous perfusion and continuous flow culture (brief description).
7	2	Cell lines-finite and continuous.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Subculture-mono layer and suspension
9	4	Totipotency, tissue culture-media, composition, nutrients, growth regulators, r
10	4	egeneration of plants-organogenesis
11	4	somatic embryogenesis, callus
12	4	cell suspension culture, micro propagation,
13	4	production of haploid plants,
14	4	protoplast isolation, fusion
15	4	protoplast regeneration

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**5**
Subject	**EBC510A : PLANT BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Discovery and definition of plant cell, cell wall, plasmodesmata.
2	1	Meristematic cells and secretary systems. Mechanism of absorption
3	1	Ion exchange, passive and active absorption.
4	1	Carrier concept and donnan membrane equilibrium
5	5	Absorption of mineral salt
6	5	Carrier concept theory
7	5	Strategies for protection of nitrogenase against the inhibitory effect of oxygen

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Nif genes of Klebsiella pnemoniae
9	5	Regulation of Klebsiella pneumonia
10	5	Nitrate reductase
11	1	Revision test on mineral absorption
12	1	Revision test on Donnan Membrane
13	5	Revision test on Nitrogen fixation
14	5	Revision test on Nif genes and klebsiella pnemoniaeand its regulation
15	5	Nitrate reductase revision test

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LESSON PLAN

Name of the Staff	**HENSON T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**AMT101Q : Allied Mathematics - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THEORY OF EQUATIONS- IRRATIONAL ROOTS AND COMPLEX ROOTS
2	1	RELATION BETWEEN ROOTS AND COEFFICIENTS
3	1	PROBLEMS ON THEORY OF EQUATIONS
4	1	SYMMETRIC FUNCTIONS OF ROOTS
5	2	TRANSFORMATION OF EQUATION BY INCREASING OR DECREASING ROOTS BY A CONSTANT
6	2	RECIPROCAL EQUATIONS
7	2	NEWTON'S METHOD TO FIND A ROOT APPROXIMATELY

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	nth DERIVATIVE,
9	4	LEIBINITZ THEOREM, JACOBIANS
10	4	RADIUS OF CURVATURE FOR CARTESIAN COORDINATES
11	4	RADIUS OF CURVATURE FOR POLAR COORDINATES
12	5	DOUBLE AND TRIPLE INTEGRALS
13	5	DOUBLE AND TRIPLE INTEGRALS
14	5	APPLICATIONS OF DOUBLE AND TRIPLE INTEGRALS AREA , VOLUME , CENTROID
15	5	APPLICATIONS OF DOUBLE AND TRIPLE INTEGRALS AREA , VOLUME , CENTROID

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Therumular azvar
2	1	Naukaraser manigavasakar
3	1	Andal pattenathar
4	4	Sambanthar suntharar
5	5	Mozhitheren
6	5	Mozhipayarpu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Thurogasuvadu
9	3	Thurogasuvadu
10	3	Thurogasuvadu
11	4	Setreelakkiyam
12	4	Esulam thamil
13	2	Masthan sakeppu kumaraguruparar
14	2	Kalengathu parani nanthikalambagam
15	2	Mukkudal pallu

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**AMALORPAVADOSS A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH101B : ORGANIC CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 IUPAC Nomenclature of Organic molecules
2	1	1.2 The geometry of molecules – Hybridisation sp3, sp2, sp with examples. 1.3 Cleavage of Bonds – Homolytic and heterolytic cleavage.
3	1	1.4 Bond energy, Bond length,and Bond angle. 1.5 Electron displacement effects – inductive, inductomeric,
4	1	1.5 electromeric, resonance, hyperconjugation and steric effects.
5	1	1.6 Reactive Intermediates: Carbocations, Carbanions, Carbenes,and free radicals.
6	3	3.1 Alkene Nomenclature - structure and bonding - Isomerism in Alkenes – properties – stability.
7	3	3.2 Preparation of Alkenes – Elimination reactions: Dehydration of Alcohols, Dehydrohalogenation of Alkyl halides.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	E1 and E2 mechanism. Hofmann and Saytzeff's rules – Problems related to this mechanism.
9	3	3.3 Addition Reactions of Alkenes: Hydrogenation, Halogenation, Hydrohalogenation - mechanisms
10	3	Markovnikov's rule and Anti Markovnikov's rule. Mechanism of Hydration, Hydroboration, Ozonolysis,
11	3	Hydroxylation with KMnO4. Self-addition. Polymerization of Ethylene and Propylene problems.
12	5	5.1 Conformational isomerism: Conformers, Dihedral angle, torsional strain.
13	5	5.2 Conformational analysis of ethane and n-butane.
14	5	5.3 Geometrical isomerism: Cis – trans, syn-anti and E-Z notations, Methods of distinguishing geometrical isomers using melting point, dipole moment,dehydration, cyclization and heat of hydrogenation.
15	5	Revision

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LESSON PLAN

Name of the Staff	**JOHNBOSCO A Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Marabu kavithaigal -Thiruvarutpa-Eramalingavallalar Magakavi Barathiyarin- Baratha Desam
2	1	Barathidasanin Ulagam unnudaiyathu Kavimaniyin Aasiya jothi-Buhttharin Arivurai
3	1	1.Kaviyarasu Kannadasanin Eyasukaaviyam Uothsarippillai Uvamai
4	3	Elakkiya Varalaru-20am Nutrandu Kavijarkal Sirukathaiyin Thotramum Valarchium
5	4	Sirukathaigal-Kathavu,Ki.Erajanaarayananin Kathavu,Kudumbaththil Oru nabar
6	5	Mozhiththiran -Vallotru migum migaa Edangal
7	2	Abdhul Raguman-Aalabanai Mu Methaa-Thesappithavukku theruppadaganin Anjali Thamizhachi-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	????????????? - 2 ?? ?????????? –???????????????? ????????????? ??????
9	2	????????????? –????????? ??????????? –??????????????
10	4	??????? –??????
11	4	???????-???????
12	2	????????????? ???????? –???????? ????????
13	3	?????????????- ?????????????? ????????? ??????????
14	3	?????????????-??????????? ???????????
15	4	???????-????????????

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH102A : KINETIC THEORY OF GAS AND CHEMICAL KINETICS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	units introduction, ideal gas equation-Boyles, Charle's and Avogadro's law
2	1	R value calculation, compression factor
3	1	Real gas equation –critical temperature – compression factor - Virial equations of state - diffusion, effusion- calculations
4	1	Vanderwaals equation of state- Boyle temperature - joule – Thomson effect- Linde refrigerator
5	1	mass, length and charge conversions and notations- calculations
6	2	diffusion, effusion and convections- concepts and problems, Daltons law, STP and SATP
7	5	5.1 Solutions- types of solutions-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	concentration units of solutions
9	5	concentration units of solutions- problems
10	5	ideal and non ideal solutions.
11	5	Colloids- various types of classification –
12	5	emulsions-applications of colloids.
13	5	Meso phases and disperse systems
14	5	liquid crystals- classification- surface,structure and stability-
15	5	electrical double layer

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Vallalar - Thiruvarutpaa 1.2. Barathiyar - Barathadesam
2	1	1.3. Barathidasan - Ulagam unnudaiyathu 1.4. Kavimani - Aaciyajothi
3	1	1.5. Kannadasan - Utharimainthan
4	3	3.1. Irupadam Nootrandu kavinjargal
5	3	3.3. Sirukathain thottramum valarchium
6	4	4.1. kathavu
7	4	4.2. Kudumpaththil Oru Nabar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1. Vallottru migum edangal 5.2. Vallottru miga edangal
9	2	2.1. Abdul raguman - Aalaabanai 2.3. Vairamuththu - Suyakolli
10	2	2.2. Mu.Meththaa - Thesapidavukgu theru padaganin anjali
11	2	2.4. Thamizhchi - Enjottupen 2.5. Nattupurapadalgal
12	3	3.2. Puthukavithaien Thottramum valarchium
13	3	3.4. Nattupura Illakiyangal
14	4	4.3. Jeyil - Sirukathai
15	4	4.4. Minnal 4.5. Ezhuthamarantha kathai

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular- Thirumanthiram, thondaradipadi yazhvar thirumalai
2	1	Thirunavukkarasar thevaram, Manikkavasakar - thiruvasakam
3	1	Aandal thiruppavai, pattinathar padalkal
4	4	Sampanthar, sundhrar mattum, Aazhvargal- Mutjal Aazhvar movar mattum
5	5	Mozhi thiran Ariviyal, Aatsithurai, kanini, puzhanku porutgal kalaisol Aakkam
6	5	Mozhipeyarpu paguthi
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai - thuroga suvadugal - ve.Eraiyanbu 1-6
9	3	Thuroga suvadukal 7-10
10	3	Thuroga suvadugal 11-13
11	4	Sitrilakkiyankal thoothu, Ula, Kuravanchi, Anthathi
12	4	Islamum Thamizhum
13	2	Masthan sagipu Paraparakanni, Kumarakuruparar Pillai thamizh
14	2	Kalingathu parani, Nanthi kalambagam
15	2	Mukkudar pallu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	11	Vallalar_thiruvaruppa, Bharathiyar- Bhatayha thesam
2	2	Bharathi dhasan-Ulagam unnidaiyathu, kavimani-Aasiya jothi
3	13	Kannadhasan-Yesu kaviyam
4	3	Elakkia varalaru- Erupatham nootrandu kavithaikal
5	3	Elakkia varalaru - sikathaiyin thottramum valarchiyum
6	4	Sirukathai: kathavu - ki.Ra
7	44	Sirukathai: kudumpathil oru nabar - ki. Ra

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran - vallottu miga edam, migu midam
9	2	Puthu kavitha: Aalapanai - Abdul rahman
10	2	Puthukavithaikal: Thesapithavirku therupadagan Anjali, suyukolli - Vairamuthu
11	2	Puyhukkavithai : Enchottupen- thamizhasi, Nattupura padalkal
12	33	Elakkiya varalaru - puthukkavithaiyum thotramum varchiyum
13	3	Elkkiya varalaru - Nattupura elakkiyankal
14	4	Sirukathaikal : jail, Minnal - ki. Ra
15	44	Sirukathai : elzutha marantha kathai - ki. Ra

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LESSON PLAN

Name of the Staff	**DEVI SHYAMALA MARY C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**AMT202T : ALLIED MATHEMATICS - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansions of sin n ?, cos n ?,
2	1	Expansion of sinn ?,cosn?,
3	1	tann? – Expansions of sin ?, cos ?, tan ? in terms of ?
4	1	Hyperbolic and inverse hyperbolic functions
6	3	Vector functions- Derivative of a vector function- Scalar and vector point functions-
7	3	Gradient of a scalar point function- Gradient- Directional derivatives
8	3	Unit vector normal to a surface ,angle between the surfaces

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	angle between the surfaces-divergence, curl.
10	4	Green's theorem in the plane-
11	4	Gauss divergence theorem-
12	4	Stoke's theorem [without proofs].
13	4	continued
14	5	Newton – Gregory forward & backward formulae for interpolation
15	5	Lagrange's interpolation formula for unequal intervals(without proof) .
5	1	Logarithms of complex numbers.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mrs. T. Shalini**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making Requests and Responding to Requests Thanking someone and Responding to thanks
2	1	How to be a Doctor - stephen Leacock Precis writing Non - Finite verbs Strong and eeak verbs
3	2	Strong and weak Forms in Transcription Inviting , Accepting and Refusing an Invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence - William blake Note - Making Use of Wrong preposition
5	3	My visions for India - A.P.J. Abdul Kalam Report writing
6	1	The Auxiliaries Unnecessary use of articles
7	3	Punctuation and capitals

Cycle	Unit	Topics to be covered / Activity to be carried out
9	4	Sentence transcription Describing daily routines
10	4	Poem If Paragraph writing
11	4	The merchant of venice Personal details
8	1	I CIA
12	5	Transcribing short passage Asking for directions and giving directions
13	5	Kiran Bedi
14	5	Use of wrong tenses Prefixes and suffixes
15	2	II CIA

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**GNANA SOUNDARI K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Speech sound: consonants Meeting people greeting them Introducing people to others
2	1	Prose: Forgetting Letter writing Parts of speech
1	1	Speech sound: consonants Meeting people greeting them Introducing people to others
1	1	Speech sound: consonants Meeting people greeting them Introducing people to others
2	1	Prose: forgetting Letter writing The sentence Parts of speech
6	3	Poem- Time and love Dialogue writing Articles
7	3	Pronouns- Personal, Reflexive, Emphatic Demonstrative, Indefinite, Interrogation, Distributive, Reciprocal and Relative

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA EXAM
9	4	Phonetic Transcription Answering the telephone and asking for someone
10	4	Prose- Mother Teresa- John Frazer Reading comprehension
11	4	Verb: Transitive and Intransitive Verb: Active and passive voices
12	5	Voiced and Voiceless: Sound The selfish giant by O Henry
13	5	Verb: Mood and Tenses Agreement of verb with the subject
14	0	II CIA EXAM
15	0	Revisions

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CH204Q : ANALYTICAL CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definitions of Molality – Normality
2	2	Mole fraction and their calculations
3	2	Definition and examples for primary and secondary standards – Calculation of equivalent.
4	2	Theories of acid-base – Redox, complexometric and Iodometric titrations –
5	2	Problems on Volumetric analysis-strengths of solutions – Theories of indicators
6	2	acid, base, redox, metal ion,and adsorption indicators and choice of indicators.
7	3	Equivalent weights of Compounds –methods of determination of equivalent weights using hydrogen displacement method,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	oxide method, chloride method, metal displacement method
9	3	problems based on the law of normalities for acid, Alkali titrations – the concept of double and back titrations.
10	5	Chromatographic technique – the principle of chromatography
11	5	definition of the terms – Rf value
12	5	paper chromatography – principle and applications –
13	5	theory and applications – ion exchange chromatography – principle, types,and applications
14	5	thin layer chromatography
15	5	ion exchange chromatography application

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SALT MIXTURE -I
2	2	SALT MIXTURE -II
3	3	SALT MIXTURE -III
4	4	SALT MIXTURE -IV
5	5	SALT MIXTURE -V
6	6	SALT MIXTURE -VI
7	7	SALT MIXTURE -VII

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	SALT MIXTURE -VIII
9	9	SALT MIXTURE -IX
10	10	SALT MIXTURE -X
11	11	SALT MIXTURE -XI
12	12	SALT MIXTURE -XII
13	13	SALT MIXTURE -XIII
14	14	SALT MIXTURE -XIV
15	15	SALT MIXTURE -XV

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	2	Apologising Making Request
5	2	Audio – Video lessons
6	3	Telephonic communication / Business
7	0	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	I CIA
9	4	Building powerful vocabulary Coining related words
10	4	Acronym Mispronounced words
11	5	Extempore
12	5	Elocution
13	5	Description Narration Paragraph Writing
14	0	II CIA
15	0	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19CH203 : INORGANIC CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Atomic orbitals - Shapes of s, p, d, f orbital. Hund's rule of maximum multiplicity-applications of Hund's rule- Aufbau principle - Pauli's exclusion principle - electronic configuration of elements - Stability of half filled and completely filled ...
2	1	General periodic properties of elements - Periodic table- IUPAC - nomenclature of Inorganic compounds - Atomic radii and ionic radii – size - ionization energies – electron affinity - oxidation states and variable valencies - Inert pair effect – e...
3	1	Hydrogen bonding – Intra and Inter molecular hydrogen bonding – properties of hydrogen bonded Nitrogen, Oxygen, Fluorine and sulphur compounds
4	2	Chemistry of Alkali metals: Occurrence, comparative study of elements - oxides, halides, hydroxides and carbonates. Exceptional properties of Li. diagonal-relationship of Li with Mg.
5	2	Chemistry of Alkaline earth metals: Comparative study of elements – oxides - hydroxides, halides, sulphates and carbonates. Exceptional properties of Be. Diagonal relationship of Be and Al
6	2	Comparison of alkali metals with alkaline earth metals. Mg acting as bridging element between II A & II B groups resemblance of Mg with Zn.
7	3	Chemistry of p – block elements – Boron family- semi metals - group discussion – anomalous behavior of B - diagonal relationship between B & Si - electron deficiency & electron acceptor behavior of BX3.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Boron hydrides - Bonding in diborane, (VBT & MOT approach) Bonding in tetraborane. Borax, sodiumborate, sodiumtetraborate, or disodiumtetraborate - Boric acid.
9	3	Compounds of Boron with Nitrogen - Borazole and Boron nitrides.
10	4	Ionic Bond : Conditions for the formation of ionic bond – Radius ratio rules and its limitations – formation of NaCl – Hydration energy – Lattice energy and their applications – Born Haber cycle– General properties of ionic compounds
11	4	Covalent bonding: Polarization and Fajan's rule, Effects of polarization, VBT- conditions for the formation of covalent bond – orbital overlap– hybridization- sigma and pi bonds - Characteristics of Covalent Compounds. Hannay smith equation.
12	4	Acid- Base concepts – Lewis, Lowry-Bronsted, Luxflood, Usanovich concepts & HSAB approach.
13	5	VSEPR Theory: Molecular shapes predicted by Sidgwick's Powell theory – Effect of lone pairs and Electronegativity – Effects of bonding and lone pairs on bond angles. Geometries of ClF3, IF7, XeF6 , BF4-, BO33-, NH4+, I3-.
14	5	Molecular Orbital Theory: LCAO method, criteria of orbital overlap – types of molecular orbitals - sigma and pi molecular orbitals, combination of atomic orbital to give sigma and pi molecular orbitals and their schematic illustration
15	5	Qualitative molecular energy level diagram of homo and hetero diatomic molecules – H2, N2, O2, CO, NO & HCl – bond order and stability of molecules.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Demo class
2	1	Inorganic Qualitative Analysis-I
3	1	Inorganic Qualitative Analysis-II
4	1	Inorganic Qualitative Analysis-III
5	1	Inorganic Qualitative Analysis-IV
6	1	Inorganic Qualitative Analysis-V
7	1	Inorganic Qualitative Analysis-VI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Inorganic Qualitative Analysis-VII
9	1	Inorganic Qualitative Analysis-VIII
10	1	Inorganic Qualitative Analysis-IX
11	1	Inorganic Qualitative Analysis-X
12	1	Inorganic Qualitative Analysis-XI
13	1	Inorganic Qualitative Analysis-XII
14	1	Inorganic Qualitative Analysis-XIII
15	1	Model Practical

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH101B : ORGANIC CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Alkanes: Introduction and nomenclature of Alkanes
2	2	Preparation of Alkanes, and , Physical properties
3	2	Chemical properties of alkanes
4	2	Cycloalkanes : General methods of preparation and
5	2	Physical properties of cycloalkanes
6	2	Chemical properties of cycloalkanes
7	3	General methods of Preparation of Alkenes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Elimination reactions: Dehydration of Alcohols, Dehydrohalogenation of Alkyl halides
9	3	E1 and E2 mechanism. Hofmann and Saytzeff's rules – Problems related to these mechanism
10	4	Alkynes – Sources of Alkynes - Nomenclature
11	4	Acidity of alkynes – addition reactions – hydrogenation, Hydrohalogenation, Hydration with HgSO4
12	4	Preparation of Alkynes by elimination reactions , Ozonolysis of alkynes Alkylation of alkynes using acetylides.
13	4	addition of hydrogen halides & halogens to conjugated dienes
14	4	Polymerization of dienes– Diels-Alder reaction - Problems
15	4	Allenes – preparation and structure.

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LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CH204Q : ANALYTICAL CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Theory of Errors
2	1	The idea of significant figures and its importance with examples
3	1	Precision, Accuracy- methods of expressing accuracy
4	1	Error analysis – minimizing errors
5	1	Method of expressing precision – average deviation
6	1	Standard deviation – Confidence limit.
7	3	Chemical formulae and percentage composition – Determination of empirical Formulae and molecular formulae. Laws of chemical combination: Law of conservation of mass

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Law of constant composition – Law of multiple proportions – Law of reciprocal proportions – Gay Lussac's law of Gaseous volumes.
9	4	Chemical Instrumentation: Elementary Electronics, Simple integrated circuit
10	4	Semiconductor, Power supply, transformer
11	4	Operational amplifier, Detectors (Oscilloscope and recorders)
12	4	Transducers, Rectifiers, Signal to noise ratio
13	4	Electronic components (Resistors, capacitors, inductors, and transistors)
14	4	Measuring instruments for pressure, temperature, current and voltage.
15	4	Revision

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	4	Imperumkappiyam
3	4	Insirukappiyam
4	5	Pothukatturai
5	4	Erattaikappiyam
6	5	Molitheran
7	1	Manimegalai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	pothukaturai
9	2	kapiyam kambaramayanam
10	3	pariyapuranam
11	3	thambavani
12	3	seerapuranam
13	4	kapiyangal kiruthuva kapiyangal
14	4	kapiyangal kiruthuva kapiyangal
15	4	kapiyangal islam kapiyangal

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Puranannuru, Aganannuru, kurunthogai
2	1	Natrinai,Eykurunoor kalithogai
3	1	paripadal
4	4	Eattu thogail
5	4	nethinoolkal
6	3	Thirukural
7	3	thirukural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	surukivaraithal
9	5	Nerkannal
10	4	Patthupattu
11	2	Nedunelvadai 1-30
12	2	Nadunelvadai 31-62
13	2	Sirupanatrupadai
14	2	Madhuraikanchi
15	2	mullaipattu

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservati...
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH408T : INTRODUCTION TO MOLECULAR STRUCTURE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction- Introduction to molecular structure.
2	2	Chemical bond-classification of bonds-potential energy curves.
3	2	VBT-diatomic molecules.
4	2	Poly atomic molecules-promotion and hybridization-resonance.
5	2	Molecular orbitals-linear combinations of atomic orbitals-bonding orbitals -anti bonding orbitals.
6	2	Structure of diatomic molecules- hydrogen and helium molecules.
7	2	Explanation of period 2 diatomic molecules.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Electric and magnetic properties – Clausius-Mosotti equations.
9	3	Debye equation – measurement of dipole moments.
10	3	Dependence of polarizability on frequency.
11	4	Group theory – symmetry elements and operations –
12	4	Classes and subgroups –group multiplication table-
13	4	Postulates of a group.
14	4	Solid state- Amorphous and crystalline- classification of crystalline solids- bonding and electrical conductivity in solids.
15	4	Crystal lattices and unit cells-Bravais lattices. Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACCH401S : ALLIED - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	11	Programming Language: History of computer-Introduction to Algorithm-Flow chart-
2	1	structure of programming language C Fundamentals:
3	1	Chapter set- Identifiers-keywords--Constants-
4	1	Data types-Variables-Declarations-Expressions-Statements.
5	2	Control statements: Data Input/output functions-
6	2	simple C programs-Operators-
7	2	Library functions-Flow of control-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Control structures-switch, break and continue-go to statement.
9	3	sample programs using functions
10	4	Arrays: Defining and processing-Types Arrays-
11	4	string Functions- strlen()-strcpy()-strcat()-strcmp()-strlwr()-strupr()-strrev()-
12	4	Structures.Determination of Half Life and Average Life of a Radioactive nucleus-
13	4	Determination of Normality, Molarity and molality of solutions-
14	4	Calculation of Equivalent weight of acids, bases and salts.
15	4	sample programs on all concepts-revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample programs-printing a statement, printing a pattern(*), using printf, using scanf, printing a value,Adding two numbers, Getting and adding two numbers
2	1	Determination of electronegativity of an atom using pauling's relation
3	1	Shapes of molecules or ions using VSEPR Theory
4	2	,loops
5	2	if conditions
6	3	Deriving Empirical Formula from Elemental Analysis
7	3	Calculation of PH and POH

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Determination of Solubility of sparingly soluble salts
9	3	Determination of Normality, Molarity and Molality of the solution
10	3	Determination of Half life and average life of a radioactive nucleus
11	4	array
12	4	model practical
13	5	Calculation of Equivalent Weight of Acids, Base and Salts
14	5	Calculation of Inter-Planar Distance for Planes
15	5	sample programrevison

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1. PURANANOORU - 183, 192 1.2. AGANANOORU - 02, 104
2	1	1.3. KURUNTHOGAI- 03, 40 1.4. NATTRINAI - 149, 110 1.5. INGURUNOORU - VETGAIPATHTHU 1-5
3	1	1.6. KALITHOGAI - PAALAIKALI 9,11 1.7. PARIPAADAL - THIRUMAAL 3 VATHU PAADAL
4	4	4.1. ETTUTHOGAI
5	4	4.3. PATHINENKEEZH KANAKGIL NEETHI NOOLGAL
6	3	THIRUKKURAL 3.1. ARIVUDAMAI 3.2. NATPAARAITHAL
7	3	3.3. PULAVINUNUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.2. SURUKKI VARAITHAL
9	5	5.3. NERKANAL
10	4	4.2. PATHTHUPPATTU
11	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 1-30
12	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 31 - 62
13	2	2.2. SIRUPANATTRU PADAI - EZU VALLALGALIN SIRAPPU
14	2	2.3. MATHURAIKANJI
15	2	2.4. MULLAIPPATTU

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LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH407S : ORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nucleophiles – Nucleophilicity. Aliphatic nucleophilic substitution – Mechanisms of SN1,
2	1	SN2,and SNi. Energy Profile diagrams
3	1	Effects of nature of substrates, solvent, nucleophile,andleaving groups.
4	1	Leaving ability of the leaving groups. Basicity and Nucleophilicity – a comparison.
5	1	Substitution Vs elimination – with examples.
6	1	Stereochemistry of Substitution reactions – a brief introduction.
7	3	Alcohols – Sources – Nomenclature – Preparation by reduction of aldehydes, Ketones, acids,and esters. Preparation using Grignard reagents. Types of Alcohols and their reactivity. Diols and polyhydric alcohols.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Reactions of alcohols – oxidation, esterification,and dehydration. Cleavage of Diols using periodic acid (HIO4) and lead tetraacetate.
9	3	Allyl alcohol – its preparation. Allylic substitution using N-bromosuccinimide (NBS).
10	4	Preparation of aldehydes and ketones: Rosenmund and Gattermann -Koch reactions.
11	4	Reactivity of carbonyl groups, the acidity of alpha hydrogen.
12	4	Reactions: Mechanism of enolization reactions, nucleophilic addition, oxidation and reduction reactions
13	4	addition reactions with Grignard reagents, cyanide and bisulphate. Preparation of derivatives of ammonia and alcohols.
14	4	Mechanism of aldol, Cannizaro perkin, knoevenagel reactions. Benzoin condensation, Claisen reactions.
15	4	Mechanisms of reductions with NaBH4, LiAlH4, Wolff-Kishner, Clemmensen,and MPV reductions.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CHP403 : QUALITATIVE ORGANIC ANALYSIS - PRACTICAL III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
2	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
3	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
4	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
5	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
6	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
7	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
9	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
10	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
11	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
12	1	Identification of an organic compound through the functional group analysis. Detection of special elements (N, S, and halogens).(Microscale)
13	2	ORGANIC PREPARATIONS NITRATION: Preparation of m-dinitrobenzene and p-nitro acetanilide. ACETYLATION: Preparation of acetyl derivatives of aniline, salicylic acid, and glucose.
14	2	ORGANIC PREPARATIONS DIAZOTIZATION: Preparation of methyl orange and methyl red. REDUCTION: Preparation of aniline from nitrobenzene.
15	2	ORGANIC PREPARATIONS OXIDATION: Preparation of benzoic acid from benzaldehyde. HALOGENATION: Preparation of p-bromoacetanilide.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CHP404 : PHYSICAL METHODS - PRACTICAL IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Part -I Determination of melting point Naphthalene, Benzoic acid, Urea, Succinic acid, m-Dinitrobenzene, Acetanilide, p-Dichlorobenzene.
2	1	Part -I Determination of melting point Naphthalene, Benzoic acid, Urea, Succinic acid, m-Dinitrobenzene, Acetanilide, p-Dichlorobenzene.
3	1	Determination of boiling point Ethanol, Cyclohexane, Toluene
5	2	Decolorisation and crystallization using Charcoal 1. Decolorisation of brown sugar (sucrose) with animal charcoal using gravity filtration. 2. Crystallization and decolourization of impure naphthalene from ethanol.
6	2	Decolorisation and crystallization using Charcoal 1. Decolorisation of brown sugar (sucrose) with animal charcoal using gravity filtration. 2. Crystallization and decolourization of impure naphthalene from ethanol.
7	2	Decolorisation and crystallization using Charcoal 1. Decolorisation of brown sugar (sucrose) with animal charcoal using gravity filtration. 2. Crystallization and decolourization of impure naphthalene from ethanol.
8	2	Decolorisation and crystallization using Charcoal 1. Decolorisation of brown sugar (sucrose) with animal charcoal using gravity filtration. 2. Crystallization and decolourization of impure naphthalene from ethanol.

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Viscosity, Surface Tension 1. To determine the percentage composition of a given mixture by the viscosity method.
10	3	Viscosity, Surface Tension 1. To determine the percentage composition of a given mixture by the viscosity method.
11	3	Viscosity, Surface Tension 1. To determine the percentage composition of a given mixture by the viscosity method.
12	3	Viscosity, Surface Tension 2. To determine the percentage composition of a given binary mixture by surface tension method.
13	3	Viscosity, Surface Tension 2. To determine the percentage composition of a given binary mixture by surface tension method.
14	3	Viscosity, Surface Tension 3. To determine the viscosity of amyl alcohol in the water at different concentrations.
15	3	Viscosity, Surface Tension 3. To determine the viscosity of amyl alcohol in the water at different concentrations.
4	1	Determination of boiling point Ethanol, Cyclohexane, Toluene

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH305T : INORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles of acid-base equilibria - Common ion effect, solubility product and their applications in qualitative analysis.
2	1	Reactions involved in the separation and identification of cations and anions in qualitative analysis
3	1	Spot reagents – aluminon, Cupferron, DMG, Thiourea, magneson, alizarin and Nessler's reagentTypes of solvents:
4	1	Physical properties of solvents, protic and aprotic solvents, amphiprotic and amphoteric solvents – aqueous and non-aqueous solvents
5	1	Liquid NH3 as a solvent - HF as a solvent - solvation number – medium effect - Vander waal's forces - ion-dipole, dipole-dipole interactions
6	3	Nitrogen family - Comparative study of N, P, As, Sb, Bi. oxides – N2O3, P4O6, N2O5 and P4O10. Oxy-acids: HNO2, HNO3, H3PO2, H3PO3 and H3PO4 –properties and structure.
7	3	Halides – PCl3, PCl5 – properties and structure. Hydrides – NH3, PH3, AsH3 and BiH3 – structure, trends in boiling point, basic character and hydrogen bonding.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties, structure and uses of hydrazine and hydroxylamine - Revision
9	5	Noble gases: electronic configuration – reasons for placing in zero group
10	5	position in the periodic table - chemical inertness of noble gases – reasons – applications – clathrates
11	5	position in the periodic table - chemical inertness of noble gases – reasons – applications – clathrates
12	5	hybridization and geometries of XeF2, XeF4, XeF6, XeOF4.
13	5	hybridization and geometries of XeF2, XeF4, XeF6, XeOF4.
14	5	hybridization and geometries of XeF2, XeF4, XeF6, XeOF4.
15	5	Uses of noble gases- Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**APHP301 : ALLIED PHYSICS PRACTICAL**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I - Experiment
2	1	II - Experiment
3	1	III - Experiment
4	2	IV - Experiment
5	2	V- Experiment
6	2	VI - Experiment
7	3	VII - Experiment

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	VIII - Experiment
9	3	IX - Experiment
10	4	Revision
11	4	Revision
12	4	Revision
13	5	Revision
14	5	Revision
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH306S : ANALYTICAL CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Principle – concentration polarization
2	3	dropping mercury electrode- advantages and disadvantages
3	3	convention- migration and diffusion currents
4	3	Ilkovic equation (derivation not required) and significance- experimental assembly- electrodes-
5	3	capillary solutions- current voltage curve- oxygen wave
6	3	Polarography as an analytical tool in quantitative & qualitative analysis. Amperometry – basic principle & uses.
7	3	Polarimetry principle- instrumentation- comparison of strengths of acids- Estmation of glucose

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Principles involved in the separation of solids
9	1	Purification of solid organic compounds-
10	1	- Crystallisation- Fractional crystallization
11	5	Hardness of water – Hard water – soft water – Temporary and permanent hardness-
12	5	problems on calculating temporary and permanent hardness
13	5	Estimation of hardness using EDTA method and their problems – Water treatment – lime soda process –
14	5	calculation of amount of soda lime required for water softening – zeolite process – problems – Demineralisation process – Reverse osmosis – Electrodialysis –
15	5	biological oxygen demand – chemical oxygen demand - treatment of domestic water supply – sedimentation – coagulation – filtration – sterilization of water

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH408T : INTRODUCTION TO MOLECULAR STRUCTURE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Quantum Chemistry – the failures of classical physics-block body radiation –
2	1	1.2 Schrodinger equation –the Born interpretation-uncertainty principle
3	1	1.3 Quantum numbers- wave functions – s orbitals-p and d orbitals and their mathematical expressions-electron spin.
4	3	3.2 Molar refractivity – dipole moments and molecular structure Photo electric effect –diffraction of electrons
5	3	magnetic permeability – magnetic susceptibility
6	3	diamagnetism – Para magnetism – measurement of magnetic susceptibility
7	5	5.1 General features of spectroscopy – experimental techniques – intensities & line widths

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.2 Rotational spectroscopy-the rotational energy levels of molecules-
9	5	rotational transitions-microwave spectroscopy-rotational Raman spectra.
10	5	5.3 Vibrational spectroscopy – the vibrations of molecules – transitions
11	5	vibrational Raman spectra of diatomic molecules-vibrations of polyatomic molecules
12	5	vibrational Raman spectra of polyatomic molecules.
13	5	5.4 Electronic transitions – UV and visible spectra
14	5	Franck Condon principle-measures of intensity-spin selection rules,
15	5	spectral transitions and types of transitions.

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**APH301T : ALLIED PHYSICS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	ELECTRONICS: FET-characteristics-parameters-FET as amplifier-IC-SSI LSI MSI-VLSI IC fabrication
2	5	Diode-flip flops-RS flip flops-D flip flops-JK flip flops
3	2	ELECTRICITY & MAGNETISM: Capacitor-energy of charged capacitors-loss of energy due to sharing of charges-AC circuits-growth and decay of charge containing resistance and capacitor (RC) circuit and inductance and resistance (LR) circuit
4	2	Potentiometer-measurement of internal resistance of cell and unknown resistances- moment, Tan C and pole strength of a magnet.
5	1	PROPERTIES OF MATTER & ACOUSTICS: Laws of transverse vibrations - AC frequency measurement using sonometer-velocity of sound in a gas- Ultrasonics-production and uses.
6	1	Transverse vibrations of a stretched string-expression for the velocity of transverse wave. non-uniform bending- torsion of a wire- torsional pendulum
7	4	RELATIVITY & QUANTUM MECHANICS: Postulates of theory of relativity- Lorentz transformation equations-derivation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Addition of velocities-twin paradox Minkowski's four dimensional space.
9	4	De Broglie's waves - Uncertainty principle- postulates of wave mechanics
10	4	Schrodinger's equation (Time dependent one dimensional) - application to a particle in a box.
11	3	OPTICS: Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate
12	3	Determination of diameter of a thin wire by air wedge
13	3	spherical aberration – minimizing spherical aberration by using two thin lenses in contact
14	3	chromatic aberration- achromatic combination of two thin lenses in contact
15	3	optical activity-specific rotatory power-polarimeter

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**APHP301 : ALLIED PHYSICS PRACTICAL**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Experiment No: 1
2	2	Experiment No: 2
3	3	Experiment No: 3
4	4	Experiment No: 4
5	5	Experiment No: 5
6	6	Experiment No: 6
7	7	Experiment No: 7

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Experiment No: 8
9	9	Experiment No: 9
10	10	Experiment No: 10
11	1	Repeat class-1
12	2	Repeat class-2
13	3	Formula test
14	4	Model exam-1
15	5	Model exam-2

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	1	Manimegalai
3	2	Sevaga sinthamani
4	4	Erattai kappiyam, impermkappiyam
5	4	Insiru kappiyam
6	5	Mozhithiran
7	5	Sutrulavazhikatti, kadithangal, pothukatturai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Kamparamayanam
9	3	Periyapuranam
10	3	Thempavani
11	3	Sirapuranam
12	4	Kirusthava kappiyangal
13	4	Kerusthava kappiyangal
14	4	Esulamiya kappiyangal
15	4	Solar kala kappiyangal

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CHP404 : PHYSICAL METHODS - PRACTICAL IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Demo Class
2	1	Demo Class
3	1	Melting point-I
4	1	Melting point-II
5	1	Melting point-III
6	1	Boiling point-I
7	1	Boiling point-II

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Boiling point-III
9	1	determine the percentage composition of a given mixture by the viscosity method.
10	1	Determine the percentage composition of a given binary mixture by surface tension method.
11	1	Crystallization and decolorization of impure naphthalene from ethanol.
12	1	determine the percentage composition of a given mixture by the viscosity method.
13	1	Determine the percentage composition of a given binary mixture by surface tension method
14	1	Crystallization and decolorization of impure naphthalene from ethanol.
15	1	Model practical

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH305T : INORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Carbon family: Group discussion - valencies, oxides, halides
2	2	hydrides of C and Si - catenation and hetero catenation
3	2	allotropy of carbon, comparison of properties of C & Si
4	2	Carbides: salt like carbides – Interstitial carbides covalent carbides – applications of carbides in Industry
5	2	Types of chemical reactions: Acid – Base, oxidation – reduction, electron transfer, double decomposition reaction
6	2	balancing chemical reactions by oxidation number and ion, electron method.
7	3	Nitrogen family - Comparative study of N, P, As, Sb, Bi oxides – N_2O_3, P_4O_6, N_2O_5 and P_4O_{10}.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Oxy-acids: HNO2, HNO3, H3PO2, H3PO3 and H3PO4 – properties and structure
9	3	Halides – PCl3, PCl5 – properties and structure and hydrazine and hydroxylamine
10	3	Hydrides – NH3, PH3, AsH3 and BiH3 – structure, trends in boiling point, basic character and hydrogen bonding. Properties
11	4	Halogens – Comparative study of F, Cl, Br, I, At elements
12	4	comparison of fluorine with oxygen – hydrogen halides – preparation and properties of HF, HCl, HBr and HI – Bleaching powder, estimation of available of chlorine
13	4	Oxyacids of halogens – Sodiumhypochloride and Soduim chlorite – Poly halides - interhalogen compounds (ClF3, ICl, BrF3, ClF5, BrF5, IF5 structure and properties
14	4	Psuedo halogens (CN $^{-}\neg$, SCN^{-}, N3– structure and properties). Basic properties of halogens - positive iodine
15	4	exceptional properties of fluorine, similarities between H2O & HF.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH407S : ORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Aromaticity – Huckel's theory of aromaticity and its applications to Benzene and polynuclear hydrocarbons like naphthalene
2	2	Resonance and delocalization in benzene. Examples of aromatic, anti-aromatic and non-aromatic compounds. Problems
3	2	Aromatic electrophilic substitution. Mechanisms of Nitration, halogenation, Sulfonation. Friedel – Crafts alkylation and acylation
4	2	Substituent effects in Aromatic electrophilic substitution. Reactivity and orientation. Ortho-para ratio. Problems
5	2	Synthesis of simple substituted benzenes using the above reactions.
6	2	Aromatic nucleophilic substitutions. The addition-elimination mechanism AdE2. The elimination-addition mechanism - Benzyne mechanism.
7	3	Phenols – Nomenclature – structure,and bonding. Sources of phenols –the acidityof phenol and substituent effects on its acidity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Reactions of phenols: Reimer-Tiemann, Kolbe-Schmidt, Lederer-Manasse reactions and coupling with diazonium salts. Problems
9	3	Ethers – Nomenclature – structure and bonding – Preparation – Williamson synthesis. Cleavage of ethers by acids.
10	5	Carboxylic acids – nomenclature.
11	5	Ionization of carboxylic acids – acidity constants. Comparison of acid strengths of substituted haloacids and substituted benzoic acids.
12	5	Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction.
13	5	Conversion of acids to their derivatives
14	5	Dicarboxylic acids – nomenclature.
15	5	Preparation and properties of oxalic, malonic,succinic, glutaric and adipic acids

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACCH401S : ALLIED - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	Introduction to CHEM DRAW
2	5	Introduction to CHEM DRAW
3	5	Application of CHEM DRAW - for ORGANIC molecules.
4	5	Application of CHEM DRAW - for INORGANIC molecules.
5	5	CHEM DRAW: Drawing Chemical Structures
6	5	CHEM DRAW: Drawing Apparatus
7	5	CHEM DRAW: Chemical IUPAC Names

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	CHEM DRAW: Other Applications
9	5	Introduction to ISIS Draw
10	5	Introduction to ISIS Draw
11	5	Application of ISIS Draw for ORGANIC molecules
12	5	Application of ISIS Draw for INORGANIC molecules
13	5	ISIS Draw: Drawing Chemical Structures
14	5	ISIS Draw: Drawing Chemical Structures
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH306S : ANALYTICAL CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Applications of TGA,
2	1	Thermometric titration and its application
3	2	Purification of solids
4	2	Crystallization, and Sublimation
5	1	Characteristics of precipitating agents- Choice of precipitants and conditions of precipitation – Specific and selective precipitants- Use of sequestering agents.
6	1	Co-precipitation- Post precipitation- Peptisation- Differences- Reduction of error –Precipitation from homogeneous solution- Calculations in gravimetric methods- use of gravimetric factors.
7	2	Fractional crystallization- Sublimation-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Revision
9	4	Absorption laws- calculations involving Beer – Lambert's law – instrumentation – photocalorimeter
10	4	spectrophotometer – block diagram with description of components with theory
11	4	types of electronic transitions
12	4	chromophore – auxochromes
13	4	absorption bands and intensity – factors governing absorption maximum and intensity
14	4	Bragg's equation – explanation of terms – experimental methods – Rotating crystal technique – powder technique – determination of structure of NaCl.
15	4	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
2	1	Sample programme-1
3	1	Sample programme -2
4	1	Determination of electro negativity of an atom from Bond Energy data using Pauling's relation
5	1	Determination of Lattice energy of a crystal using Born-Lande Equation
6	1	Shapes of molecules or ions using VSEPR Theory
7	1	Deriving Empirical Formula from Elemental Analysis
8	1	Calculation of PH and POH

Cycle	Unit	Topics to be covered / Activity to be carried out
9	1	Determination of Solubility of sparingly soluble salts
10	1	Determination of Normality, Molarity and Molality of the solution
11	1	Determination of Half life and average life of a radioactive nucleus
12	1	Calculation of Inter-Planar Distance for Planes
13	1	Calculation of Equivalent Weight of Acids, Base and Salts
14	1	Determination of Isotope carbon life of a radioactive nucleus
15	1	Model practical-1
1	1	Introduction of computer based chemistry

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SHEELA**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**AOFT301 : FOOD PROCESSING TECHNOLOGY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aim and objectives of preservation and processing of foods - classification of foods by ease of spoilage
2	1	Methods of food preservation- principle of food preservation - Asepsis - removal of Microorganism
3	1	Asepsis - removal of Microorganism - Maintenance of Anaerobic condition
4	2	preservation of food by use of high and low temperature - Factor affecting heat resistant (Thermal Death Time)
5	2	Heat Penetration- heat treatment employed in processing food- canned food
6	2	Low temperature Storage - Chilling and freezing - freezing of foods and its consequences
7	3	Preservation of food by drying, additives and radiation . methods of drying- treatment of foods before drying -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Procedure after drying - intermediate moisture foods - Antimicrobial preservatives - Added Preservatives - Developed preservatives
9	3	Ultra violet radiation - Ionizing Radiation - Gamma Rays and cathode Rays- Microbial Processing.
10	4	Food Sanitation - Microbiology of the food product - Good manufacturing Practices.
11	4	Hazard Analysis Critical Control Point - Health of Employee's - Food control - Enforcement and control Agencies
12	4	International Agencies (FAO, WHO, FDA and ISO) - national Agencies (Agmark, ISI, BIS)
13	5	Food and Food components - Food Adulteration - food additives
14	5	Dairy Technology- Market Milk - Special Milk - Cream- Butter - Ice cream - Cheese
15	5	Dried milk products - Packaging Milk and Milk Products.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock interview Facing an interview Tele-interviews Drama: Julius caesar- funeral oration -William Shakespeare
2	1	Novel: the count of Monte Cristo - Alexandre dumas (chapter 01-10)
5	3	Homonyms and similar words Tele conferences Receiving visitors Handling customers or clients The use of graphics
4	2	Drama: Macbeth -he kills sleep -William Shakespeare Novel : the count of Monte cristo- Alexandre dumas (chapter 11-20)
3	2	Words often confused Seminar skills Idioms and phrases Description
6	3	Drama : Henry Iv (part I)-play out a play -William Shakespeare Novel: the count of Monte Cristo - Alexandre dumas (chapter 21-30)
7	1	I CIA Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Homophones 1.booking hotel accommodation 2.making small talk and telling stories Negotiations
9	4	Drama: As you like it -patterns of love William Shakespeare
10	4	Novel : the count of Monte Cristo -Alexander Dumas (chapter 31-40)
11	5	Group discussion 1.making appointment 2.cancelling and rescheduling appointment
12	5	Drama : Hamlet - churchyard -William Shakespeare Writing review of books
13	5	Novel : the count of Monte Cristo -Alexander Dumas (chapter 41-49) Revision
14	2	II - CIA examination
15	2	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management:
12	4	causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PERIYANAYAGASAMY V Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Thermodynamics-the conservation of energy-systems and surroundings-work and heat
2	1	1.1 Thermodynamics-the conservation of energy-systems and surroundings-work and heat
3	1	the measurement of work- the measurement of heat.
4	1	1.2 Internal energy –enthalpy- the temperature variation of the enthalpy.
5	1	PROBLEMS
6	1	PROBLEMS
7	2	2.1 Thermo chemistry-physical change-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	the enthalpy of phase transition-atomic and molecular change.
9	2	2.2 Chemical change – standard enthalpy changes
10	2	the combination of reaction enthalpies
11	2	standard Enthalpies of formation –a variation of reaction enthalpy with temperature.
12	2	PROBLEMS
13	3	3.1 II law of thermodynamics-entropy
14	3	The Carnot Cycle – Carnot theorems – Entropy and Carnot cycle
15	3	Entropy a measure of randomness and probability.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**ECH617T : MEDICINAL CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Antineoplastic Agents- Introduction
2	3	Cancer chemotherapy– special problems
3	3	The role of alkylating agents and antimetabolites in the treatment of cancer.
4	3	SAR of uracil– mustards– 6-mercaptopurine
5	3	Hormone and natural products.
6	3	Cardiovascular Drugs - Introduction
7	3	Cardiovascular diseases–central intervention of cardiovascular output – Direct acting arteriolar dilators.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Introductions to pharmacokinetics and pharmacodynamics
9	5	.Psychoactive drugs Introduction – neurotransmitters
10	5	CNS depressants– a generalanesthetic– mode of action of hypnotics
11	5	Sedatives– anti-anxiety drugs
12	5	Benzodiazepines– buspirone– neurochemistry of mental diseases.
13	5	Antipsychotic drugs– the neuroleptics– antidepressants– butyrophenones
14	5	Serendipity and drug development
15	5	Stereochemical aspects of psychotropic drugs.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about research methodology
2	1	How to choose the particular area of research based on current problems
3	1	Explanation about thesis writing
4	1	Literature survey
5	1	Aim and scope of the particular research work
6	1	Introduction
7	1	Scheme preparation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Materials and methods
9	1	Synthesis of some Inorganic and organic compounds
10	1	Spectral analysis
11	1	Spectral analysis
12	1	Results and discussion
13	1	Summary writing
14	1	Reference
15	1	Thesis correction

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH510T : INORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Chemistry of d-block elements -
2	1	Characteristics of d-block elements - occurrence - oxidation states, magnetic properties,and color
3	2	2.1 Coordination Chemistry: Definition of terms used – the difference between double salts and coordination complexes -
4	2	Isomerism in complexes –
5	2	Coordination isomerism and polymerization isomerism -
6	2	Geometrical and optical isomerism in tetra and hexacoordinated complexes
7	4	consequences of CFSE on atomic radii, lattice energy, the heat of hydration - s

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	factors affecting CFSE –
9	4	oxidation state, spectrochemical series, principal quantum number, geometry
10	4	4.2 Comparison of VBT and CFT.
11	4	Trans effect
12	4	Jahn-Teller effect and its consequence
13	4	Jahn-Teller effect and its consequence
14	4	REVISION
15	4	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**ECH513 : CHEMISTRY OF INDUSTRIAL PRODUCTS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Saponification of oils and fats .
2	1	Manufacture of soaps
3	1	Formulation of Toilet soaps–Different ingredients used–Their functions–Medicated soaps.
4	1	Herbal soaps–Mechanism of action of soap–Soft soaps–Shaving soaps and creams–ISI
5	1	Examples–Manufacture of ethylene oxide condensate.
6	1	Biodegradation – environmental effects – ISI specifications and limits
7	2	Manufacture of Sodium lauryl sulphate and Sodium Laureth sulphate: Ingredients

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Functions–Different kinds of shampoos
9	2	anti-dandruff–anti-lice–herbal and baby shampoos.
10	5	5.1 Mechanism of lubrication: Classification of lubricants–
11	5	lubricating oils– greases or semi-solid lubricants– solid lubricants and synthetic lubricants.
12	5	Explosives: Classification of explosives,
13	5	primary explosives–high explosive and low explosive. uses
14	5	Blasting fuses–manufacture of important explosives–propellants
15	5	REVISION

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LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH615S : INORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chemistry of f-block elements; Occurrence, elements, oxidation states, magnetic properties, color and spectra
2	1	Lanthanide contraction - causes, consequences and uses
3	1	Comparison between 3d and 4f block elements
4	1	Comparative account of lanthanides and actinides.
5	2	Artifical radioactivity-induced radioactivity-uses of radioisotopes
6	2	Hazards of radiation-nuclear fission- nuclear fusion
7	2	Thermonuclear reaction-energy source of the sun and stars.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Nuclear reaction: Types & reactions - cross-section, Q-value, threshold energy, compound nucleus theory, direct reaction;
9	2	Photonuclear reaction - Nuclear reactors: Breeder reactor and Fast breeder reactor -
10	2	Particle accelerators - linear accelerators, cyclotrons, Synchrotrons.
11	5	Organometallic Chemistry - Catalytic processes
12	5	Hydrogenation of olefin (Wilkinson’s catalyst), Hydroformylation of olefins using cobalt catalysts (oxo process)
13	5	Oxidation of olefins to aldehydes (Wacker’s process).
14	5	Polymerization of olefins (Zeigler-Natta catalyst); cyclo oligomerization of acetylene using nickel catalyst (Repee’s catalyst)
15	5	Polymer-bound catalyst-water gas shift reaction

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Project
2	1	Literature review
3	1	Literature review
4	1	Scheme preparation
5	1	Scheme preparation
6	1	Project synthetic work
7	1	Project Synthetic work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Project Synthetic work
9	1	Characterisation
10	1	Characterisation
11	1	Report preparation
12	1	Report correction
13	1	Report curreection
14	1	Thesis submission
15	1	model presentation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH616S : THERMODYNAMICS OF IDEAL AND NON IDEAL SOLUTIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction -Thermodynamics of ideal and non ideal solutions
2	1	The properties of the mixture- thermodynamic description of mixture-measures of concentration –
3	1	Partial molar properties –spontaneous mixing
4	1	Ideal solutions- Ideal –dilute Solutions. Real solutions
5	1	Colligative properties.modification of boiling and freezing points
6	1	Osmosis. Phase diagrams of the mixture
7	1	Phase diagrams of the mixture- a mixture of volatile liquids-liquid – liquid phase diagrams-liquid –solid phase diagrams-ultra purity and controlled impurity.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	The principle of chemical equilibrium.
9	2	Reaction Gibbs energy –a variation of ?G with composition.
10	2	Reactions at equilibrium-standard reaction Gibbs energy.
11	4	Electrochemistry –migration of ions- conductivity-specific conductance.
12	4	Equivalent and molar conductance-ion mobility.
13	4	Transport number and its determination.
14	4	Electrochemical cells-half reactions and electrodes
15	4	Reactions at electrodes. Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	introduction about the research to the students
2	1	introduction about literature survey
3	1	process of literature survey
4	1	process of literature survey
5	1	presentation and conclusion of literature survey
6	1	ordering of chemicals
7	1	experimental

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	characterisation
9	1	characterisation
10	1	discussion on results
11	1	writing of thesis
12	1	writing of thesis
13	1	writing of thesis
14	1	complete and final reading of thesis
15	1	submission

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH510T : INORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Crystal field theory - Splitting of d-orbitals in octahedral, tetrahedral and square planar complexes
2	3	crystal field stabilization energy - calculation of CFSE in octahedral complexes
3	3	Spectrochemical series - low spin and high spin complexes
4	3	Calculation of CFSE
5	3	Consequences of CFSE
6	3	Drawbacks of CFSE
7	3	Consequences of CFSE on Ionic radii, hydration energy

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Differences between VBT and CFT
9	4	Jahn Teller distortionand it's various cases
10	4	Consequences of Jahn Teller distortion
11	4	Trans effect
12	4	Carbonyls and their nature of the Bonding
13	4	Metallic carbonyls and their structure
14	1	Metallurgy of transition metals
15	1	Extraction of metals such as chromium, tungsten, titanium and vanadium

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH615S : INORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	introduction to nucleus - nuclear force acting between nucleons - N/P ratio
2	1	stability belts - stability curves - packing fraction
3	1	isotopes, isobars, isotones and isomers
4	1	detection and measurement of radioactivity - radioactivity series
5	1	rate of disintegration - half life period - nuclear binding energy
6	1	liquid drop model and shell model
7	3	bioinorganic chemistry - role of metal ions in biology

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	haemoglobin and myoglobin
9	3	haemoglobin and myoglobin , part - 2
10	3	vitamin B12, chlorophyll
11	3	nitrogen fixation and sodium pump
12	4	organometallic chemistry - classification of ligands - 18 electron rule
13	4	metal alkyls - metal alkyledenes - metal alkylidynes
14	4	organometallic reactions - addition, substitution, elimination
15	4	organometallic reaction - ligand protonation - nucleophilic and electrophilic attacks

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Thermo chemistry -Internal energy –enthalpy
2	2	Enthalpy – Enthalpy a state function – heat of reaction- atomic and molecular change
3	2	physical change-the enthalpy of phase transition. solving problems.
4	2	Chemical change – standard enthalpy changes
5	2	The combination of reaction enthalpies- solving problems
6	2	standard Enthalpies of formation –a variation of reaction enthalpy with temperature. solving problems
7	3	entropy changes for typical processes - solving problems. The direction of spontaneous change – criteria for spontaneity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	CIA EXAM
9	2	Phase Rule - Terms and definition
10	5	Phase equilibria-thermodynamics of transition –condition of stability
11	5	variation of Gibbs energy with pressure- variation of Gibbs energy with temperature.
12	5	Phase diagrams –phase boundaries
13	5	location of phase boundaries-characteristic points Phase rule – phase diagram for typical materials.
14	5	CIA EXAM
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH616S : THERMODYNAMICS OF IDEAL AND NON IDEAL SOLUTIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Salts in water- Solved problems
2	3	Concept of pH , Buffer mixture Acid —buffer action- common - ion effect
3	3	Acid base titrations -indictors
4	3	solubility constants – Solved Problems.
5	2	consequences of equilibrium-proton transfer equilibrium – Bronzed-Lowry theory
6	2	protonation and deprotonation- amphiprotic systems.
7	2	The response of equilibria to the conditions- presence of a catalyst – effect of temperature- effect of compression.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Revision
9	5	Electrochemical cells-varieties of cell- the cell reaction
10	5	the cell potential –cells at equilibrium –standard potentials
11	5	The variation of potential with pH-the determination of pH.
12	5	Applications of standard potential
13	5	The electro chemical series
14	5	The determination of thermodynamic functions.
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH509S : ORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Carbonyl polarization – reactivity – acidity of alpha hydrogen- malonic –
2	3	acetoacetic and cyanoacetic esters – characteristic reactions of active methylene group –
3	3	synthetic uses of malonic, aceto acetic and cyano acetic esters.
4	3	.Diazomethane and diazoacetic ester:
5	3	Preparation, structure and synthetic applications. Tautomerism: Definition- keto-enol tautomerism- identification, acid and base catalyzed mechanisms,
6	3	evidences – amido – imidol and nitro- acinitro tautomerisms.
7	1	Aromatic amines. Preparation of primary, secondary and tertiary amines.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Reactions: basicity of amines, effect of substituents on basicity of aromatic amines.
9	1	Diazonium salts: Preparation, diazotization reaction, Sandmeyer, Gatterman, Gomberg, and coupling reactions.
10	4	Classification as anionotropic, cationotropic, free radical, inter and intramolecular rearrangement
11	4	Pinacol-pinacolone rearrangement –mechanism, evidence for carbonium ion intermediate formation – migratory aptitude
12	5	Beckmann, Hoffmann, Carbohydrates : Structural elucidation of glucose and fructose – pyranose and furanose forms – determination of ring size
13	5	Haworth projection formula – epimerization reactions of glucose and fructose
14	5	Osazone formation, mutarotation and its mechanism – chain lengthening and chain shortening of aldoses – inter conversion of aldoses and ketoses.
15	5	Structural elucidation of sucrose and maltose. Structure and properties of starch and cellulose.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH614T : ORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	3.1 Oxidation with Cr(VI) and Mn(VII) reagents,
2	3	3.1 Oxidation with Cr(VI) and Mn(VII) reagents,
3	3	Oxidation by peracids
4	3	Oxidation with DMSO, oxalyl chloride
5	3	3.2 Catalytic hydrogenation and dehydrogenation
6	3	Reductions with LAH, NaBH4,and DIBAL. Birch reduction 3.4 Hydroboration of alkenes and alkynes.
7	2	2.3 Mass spectroscopy: Basic principles of the mass spectrum-molecular ion peak, base peak, isotopic peak

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	determination of molecular formula. Fragmentation patterns in hydrocarbons, alcohols, aldehydes, ketones, acids, halobenzenes.
9	2	2.4 Simple Combined problems using UV, IR, NMR, Mass spectra
10	5	5.1 Preparation, properties,and uses of furan, pyrrole, thiophene, pyridine,and piperidine.
11	5	Comparative study of basicity of pyrrole, pyridine,and piperidine with amines.
12	5	5.2 Six-membered rings: synthesis and reactions of quinoline, isoquinoline,and indole. Skraup synthesis, Bischler Napieralskiand Fischer Indole Synthesis.
13	5	5.3 Terpenoids: Classification, isoprene rule, isolation
14	5	the general structure of geraniol, citral, menthol, a-pinene,and camphor. Structural elucidation of menthol.
15	5	5.4 Alkaloids: definition, occurrence, extraction of alkaloids from plants, structural elucidation of coniine, piperine.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**ECH512 : ANALYTICAL TECHNIQUES**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Introduction to instrumental methods of chemical analysis.
2	1	Introduction: Introduction to instrumental methods of chemical analysis.
3	1	Microwave spectroscopy: Introduction–instrumentation–the source and monochromator–sample and sample space–detector–spectrum analyzer–working.
4	1	Microwave spectroscopy: Introduction–instrumentation–the source and monochromator–sample and sample space–detector–spectrum analyzer–working.
5	1	IR-spectroscopy: Introduction – source - monochromators – sample cells & sampling substances – a sampling of solids – detector – bolometers – thermocouples – thermisters – Golay cell – photoconductivity cell – single beam & double bea...
6	1	1.3. IR-spectroscopy: Introduction – source - monochromators – sample cells & sampling substances – a sampling of solids – detector – bolometers – thermocouples – thermisters – Golay cell – photoconductivity cell – single beam & doubl...
7	3	NQR spectroscopy: Introduction – Instrumentation - Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	ESR spectroscopy: Introduction – instrumentation – source – circulator – sample cavity – magnet system – crystal detectors - Revision
9	5	Nephlometry and Turbidimetry: Introduction – instrumentation – sources – detectors – cells – turbidimeters - nephlometers
10	5	Nephlometry and Turbidimetry: Introduction – instrumentation – sources – detectors – cells – turbidimeters - nephlometers
11	5	pH meter: Introduction – instrumentation – potentiometric type – direct reading type
12	5	pH meter: Introduction – instrumentation – potentiometric type – direct reading type
13	5	Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimetry
14	5	Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimetry
15	5	Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimetry - Revision

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LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction
2	1	Introduction
3	1	Introduction
4	2	Aim and Scope of the work
5	2	Aim and Scope of the work
6	2	Aim and Scope of the work
7	3	Methodology

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Methodology
9	3	Methodology
10	4	Result and discussion
11	4	Result and discussion
12	4	Result and discussion
13	5	Conclusion and bibliography
14	5	Conclusion and bibliography
15	5	Conclusion and bibliography

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**ECH618 : POLYMER CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Importance of polymers. Basic concepts: Monomers– repeating units– degree of polymeriztation
2	1	Linear, branched and network polymers 1.2. Classification of polymers: Polymerisation – condensation, addition, radical chain-ionic,and coordination
3	1	copolymerization. Polymerization conditions and polymer reactions. Polymerization in homogeneous and heterogeneous systems
4	2	2.1 Morphology and order in crystalline polymers – configurations of polymer
5	2	chains Crystal structures of polymers. 2.2 Morphology of crystalline polymers
6	2	strain-induced morphology, crystallization,and melting– Crystalline melting point Tm. The glass transition temperature, Tg relationship between Tm and Tg.
7	3	3.4 Plastics, elastomers,and fibers: Compounding–Processing techniques:

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Calendering–die casting–rotational casting–film casting–injection
9	3	moulding–blow moulding–extrusion moulding–thermoforming–foaming–reinforcing and fiber spinning.
10	4	4.1 Polydispersion: Average molecular weight concept–Number, weight and viscosity average molecular weights
11	4	Polydispersity and molecular weight distribution – The practical significance of molecular weight. 4.2 Analysis and testing of polymers:
12	4	Chemical analysis of polymers– spectroscopic methods–X-ray diffraction study–Thermal analysis and physical testing – tensile strength–Fatigue, impact–Tear resistance–Hardness and abrasion resistance.
13	5	5.1 Polyethylene, Polyvinyl chloride, polyamides, phenolic resins, epoxy resins,and silicone polymers.
14	5	5.2 Functional polymers – fire retarding polymers and electrically conducting polymers.
15	5	Biomedical polymers – contact lens, dental polymers, artificial heart, kidney, skin and blood cells.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**ECH513 : CHEMISTRY OF INDUSTRIAL PRODUCTS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	2.1 Manufacture of Sodium lauryl sulphate and Sodium Laureth sulphate:
2	2	Ingredients–Functions–Different kinds of shampoos
3	2	anti-dandruff–anti-lice–herbal and baby shampoos.
4	2	2.2 Hair dye: Manufacture of conditioners – Coco betaines or coco diethanolamides
5	2	ISI specifications – Testing procedures and limits.
6	2	2.3 Introduction: Methods of dying – Classifications of dyes – Methods of application of dyes
7	2	2.3 Introduction: Methods of dying – Classifications of dyes – Methods of application of dyes Fluorescent brightening agent – non-textile uses of dyes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	3.1 Face and skin powders: Ingredients – functions – Different types – Snows and face creams – A chemical ingredients used – Antiperspirants
9	3	3.2 Sunscreen preparation: UV absorbers – Skin bleaching agents – Depilatories – Turmeric and neem preparations – Vitamin oil.
10	3	3.3 Nail polishes: Nail polish preparation – Nail polish removers – Article removers – Lipsticks – roughs, eyebrow pencils – Ingredients and functions – hazards – ISI specifications
11	4	4.1 Introduction: Manufacture of leather–Preparation of hides for tanning– Vegetable–chrome and oil tanning–tannery effluents–pollution control.
12	4	4.2 Introduction– manufacture of cane sugar– recovery of sugar from molasses–manufacture of sucrose from beetroot–testing and estimation of sugar.
13	4	4.3 Classification and examples for insecticides, fungicides,and herbicides –fluorine compounds, boron compounds,
14	4	arsenic compounds, mercuric compounds, pyridine compounds
15	4	ill effects of the use of chemical fertilizers and insecticides.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**ECH617T : MEDICINAL CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Development of new drugs– procedures followed in drug design
2	1	Concepts of prodrugs and soft drugs –structure-activity relationship (SAR).
3	1	Theories of drug activity: Occupancy theory–rate theory
4	1	Induced fit theory–Quantitative structure-activity relationship.
5	1	Concepts of drug receptors: Elementary treatment of drug-receptor interactions
6	2	Antibiotics Cell wall biosynthesis– inhibitors– ß-lactum rings
7	2	Antibiotics inhibiting protein synthesis.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Structure-activity relationship of penicillin G – penicillin V
9	2	Structure-activity relationship of chloramphenicol–ciprofloxacin
10	2	Structure-activity relationship of tetracycline
11	2	Structure-activity relationship of streptomycin.
12	4	Antiinfective Drugs: Introduction and general mode of action
13	4	Structure-activity relationship of sulphonamides
14	4	Structure-activity relationship of nalidixic acid –amino salicylic acid
15	4	Structure-activity relationship of isoniazid-chloroquine

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LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH509S : ORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nomenclature and classification, Preparation Nitrocompounds: aliphatic and aromatic nitro compounds classification, general properties.
2	1	Reactions: reduction by chemical and electrolytic method
3	1	Di- and tri-substitution of aromatic nitro compounds: synthesis of o-, m-, p- dinitrobenzenes and trinitrobenzene.
4	2	Conformers of cyclohexane -chair , boat and skew boat forms, axial-equatorial positions and their interconversions
5	2	Conformers of mono and disubstituted cyclohexanes-1,2 and 1,3 interactions.
6	2	Optical isomerism, optical activity, optical and specific rotations, conditions for optical activity.
7	2	Asymmetric center, chirality, achiral molecules, (+) and (-) and D and L notations, Elements of symmetry

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	racemization, methods of racemization, methods of resolution, Asymmetric synthsis (partial and absolute synthesis), Walden inversion.
9	2	Projection formula: Fischer, flying wedge, sawhorse and Newmann projection formulae-notation of optical isomers- Cahn- Ingold-Prelog rules,
10	2	R and S notations for optical isomers with one or two asymmetric carbon atoms, erythro and threo representations
11	2	Optical activity in compounds not containing asymmetric carbon atoms namely biphenyls, allenes and spiranes.
12	4	Classification as anionotropic, cationotropic, free radical, inter and intramolecular rearrangement.
13	4	Pinacol-pinacolone rearrangement –mechanism, evidence for carbonium ion intermediate formation – migratory aptitude
14	4	Beckmann, Hoffmann, Curtius and Benzillic acid.
15	4	Baeyer Villiger rearrangements, Fries rearrangement (two mechanisms)

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LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH614T : ORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UV-Visible - Absorption Laws-Selection Rules
2	1	UV-Visible- Types of Electronic transitions
3	1	UV-Visible- chromophore-Auxochrome-Absorption bands and Intensity
4	1	Woodward-Fieser rules for calculating ?max in Dienes compounds.
5	1	Woodward-Fieser rules for calculating ?max in a,ß-unsaturated carbonyl compounds.
6	1	Infra red spectroscopy – Vibrational frequencies of important functional groups.
7	1	Infra red spectroscopy – finger print region- selection rules

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	The effect of intermolecular and intramolecular hydrogen bonding in IR
9	1	Problems based on IR and UV spectra. Problems using Woodward – fieser rules.
10	2	NMR Spectroscopy: Basic Principles of nuclear magnetic resonance- chemical shift - shielding and deshielding of protons
11	2	NMR Spectroscopy: spin–spin splitting of neighbouring protons. Coupling constants and their application
12	2	Applications of 1H NMR in the structural determination of simple organic compounds.
13	2	Mass spectroscopy: Basic principles of mass spectrum- molecular ion peak, base peak, isotopic peak, determination of molecular formula.
14	2	Fragmentation patterns in hydrocarbons, alcohols, aldehydes, ketones, acids, halobenzenes.
15	2	Simple Combined problems using UV, IR, NMR, Mass spectra

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CHP507S : ANALYTICAL CHEMISTRY PRACTICAL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Analytical Chemistry practical
2	1	Determination of strength of stong acid (HCl Vs NaOH).
3	1	Determination of strength of mixture of acids
4	1	Verification of Onsager's equation
5	1	Determination of strength of mixture of acids
6	1	Verification of Onsager's equation
7	1	Determination of pKa value of acetic acid using standard sodium hydroxide solution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Determination of pKa value of acetic acid using standard sodium hydroxide solution.
9	1	Determination of single electrode potential
10	1	Estimation of ferric ion by colorimeter method
11	1	Estimation of magnesium ion by colorimeter method
12	1	Determination of single electrode potential
13	1	Estimation of ferric ion by colorimeter method
14	1	Revision for all experiments
15	1	Model practicals

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH614T : ORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles – Type of transitions
2	1	Woodward – Fieser rules as applied to conjugated dienes and a, ß – unsaturated ketones.
3	1	Characteristic IR absorption frequencies of important functional groups – fingerprint region
4	1	The effect of intermolecular and intramolecular hydrogen bonding in IR.
5	1	Problems based on IR and UV spectra. Problems using Woodward – Fieser rules.
6	4	Electrocyclic reactions of 4 and 6 pi - electron systems
11	5	Terpenoids: Classification, isoprene rule, isolation.

Cycle	Unit	Topics to be covered / Activity to be carried out
12	5	the structures of geraniol, citral, menthol, a-pinene,and camphor.
13	5	Structural elucidation of menthol.
14	5	Alkaloids: definition, occurrence, extraction of alkaloids from plants,
15	5	The structural elucidation of coniine, piperine.
7	4	cycloaddition reactions
8	5	Preparation and reactions of Furan, Pyrrole, Thiophene
9	5	Preparation and reactions of pyridine
10	5	structure and chemical properties of Quinoline, Iso-quinoline

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Vallar - thiruvarutpa Barathiyar - Bharathathesam
2	1	Barathidasan - ulagam unudaiyathu Kavimani - Buthar(asiyajothi)
3	1	Kannadosan - Yasukaviyam
4	3	Ilakiya Varalaru - Irubatham noortandu Kavingergal
5	3	Ilakiya Varalaru - Sirukathai Thortam Valarchi
6	4	Kathavu Sirukathai
7	4	Kudumbathil Oru Nabar Sirukathai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran Vallinam Migum, Migamidam
9	2	Abdul Rahuman _ aravathu arivu
10	2	M.Matha - Dasapitha Vairamuthu - Suyakolli
11	2	Tamilachi - Tholamai Natupurapadelgal
12	3	Ilakiya Varalaru - Putjukavithai Thortam Valarchi
13	3	Ilakiya Varalaru - Natupura Ilakiyangal
14	4	Sirukathai - Jail, Minnal
15	4	Sirukathai - Elutha Marantha Kathai

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LESSON PLAN

Name of the Staff	**Dr. J. P. Ida Joicey**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling. Quiz game.
3	2	Seminar.
4	2	Debate.
5	2	Group discussion.
6	3	Book review
7	3	Film review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	Conduct of CIA I
9	4	Speech on current events. Welcome address.
10	4	Vote of thanks
11	4	Report writing.
12	5	Narrating dreams.
13	5	Narrating ambition.
14	0	Conduct of CIA II
15	0	Revision done

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH102A : KINETIC THEORY OF GAS AND CHEMICAL KINETICS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	units introduction, ideal gas equation-Boyles, Charle's and Avogadro's law
2	1	R value calculation, compression factor
3	1	Real gas equation –critical temperature – compression factor - Virial equations of state - diffusion, effusion- calculations
4	1	Vanderwaals equation of state- Boyle temperature - joule – Thomson effect- Linde refrigerator
5	1	mass, length and charge conversions and notations- calculations
6	2	diffusion, effusion and convections- concepts and problems, Daltons law, STP and SATP
7	5	5.1 Solutions- types of solutions-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	concentration units of solutions
9	5	concentration units of solutions- problems
10	5	ideal and non ideal solutions.
11	5	Colloids- various types of classification –
12	5	emulsions-applications of colloids.
13	5	Meso phases and disperse systems
14	5	liquid crystals- classification- surface,structure and stability-
15	5	electrical double layer

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CH204Q : ANALYTICAL CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definitions of Molality – Normality – Mole fraction and their calculations
2	2	Definition and examples for primary and secondary standards – Calculation of equivalent.
3	2	Theories of acid base – Redox, complexometric and Iodometric titrations – Problems on Volumetric analysis-strengths of solutions
4	2	Theories of indicators – acid, base, redox, metal ion and adsorption indicators and choice of indicators.
5	3	Equivalent weights of Compounds –methods of determination of equivalent weights using hydrogen displacement method,
6	3	oxide method, chloride method, metal displacement method –
7	3	problems based on law of normalities for acid, Alkali titrations – concept of double and back titrations.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision
9	5	Chromatographic technique – principle of chromatography –
10	5	definition of the terms – Rf value
11	5	paper chromatography – principle and applications
12	5	thin layer chromatography – theory and applications –
13	5	ion exchange chromatography – principle, types and applications
14	5	Revision
15	5	Revision

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH102A : KINETIC THEORY OF GAS AND CHEMICAL KINETICS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Adsorption – terminologies- adsorption isotherms
2	3	Langmiur adsorption isotherm- Friendlich
3	3	BET theory- Gibbs adsorption isotherm- applications of adsorption
4	2	Solving problems based on adsorption concept
5	3	Concept of equilibrium- law of mass action – the relationship between Kp&Kc the effect of concentration, pressure, partial pre ssure, temperature & volume – Le Chatlier's principle
6	3	. Mixture of gases: partial pressures- Dalton's law.Diffusion and effusion-Molecular collisions. Numerical problems related to partial pressures
7	3	Numerical problems related to molecular velocities and types of velocities

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	EXAM
9	3	Concepts of reaction rates- rate and units of rate of a reaction
10	4	Problems based on rate and rate- rate consant
11	4	rate expression and rate constant- order and molecularity.
12	4	dependence of rate on concentration. temperature dependence of the rate of a reaction- the effect of the catalyst & Solving problems
13	4	integrated rate equations-zero order, first order, pseudo first order reaction-half life of a reaction . Numerical problems in the determination of rate and order and in the effects of temperature in kinetics and Arrhenius equation.
14	4	CIA EXAM
15	4	Revision

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular- Thirumanthiram, thondaradipadi yazhvar thirumalai
2	1	Thirunavukkarasar thevaram, Manikkavasakar - thiruvasakam
3	1	Aandal thiruppavai, pattinathar padalkal
4	4	Sampanthar, sundhrar mattum, Aazhvargal- Mutjal Aazhvar movar mattum
5	5	Mozhi thiran Ariviyal, Aatsithurai, kanini, puzhanku porutgal kalaisol Aakkam
6	5	Mozhipeyarpu paguthi
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai - thuroga suvadugal - ve.Eraiyanbu 1-6
9	3	Thuroga suvadukal 7-10
10	3	Thuroga suvadugal 11-13
11	4	Sitrilakkiyankal thoothu, Ula, Kuravanchi, Anthathi
12	4	Islamum Thamizhum
13	2	Masthan sagipu Paraparakanni, Kumarakuruparar Pillai thamizh
14	2	Kalingathu parani, Nanthi kalambagam
15	2	Mukkudar pallu

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	11	Vallalar_thiruvaruppa, Bharathiyar- Bhatayha thesam
2	2	Bharathi dhasan-Ulagam unnidaiyathu, kavimani-Aasiya jothi
3	13	Kannadhasan-Yesu kaviyam
4	3	Elakkia varalaru- Erupatham nootrandu kavithaikal
5	3	Elakkia varalaru - sikathaiyin thottramum valarchiyum
6	4	Sirukathai: kathavu - ki.Ra
7	44	Sirukathai: kudumpathil oru nabar - ki. Ra

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran - vallottu miga edam, migu midam
9	2	Puthu kavitha: Aalapanai - Abdul rahman
10	2	Puthukavithaikal: Thesapithavirku therupadagan Anjali, suyukolli - Vairamuthu
11	2	Puyhukkavithai : Enchottupen- thamizhasi, Nattupura padalkal
12	33	Elakkiya varalaru - puthukkavithaiyum thotramum varchiyum
13	3	Elkkiya varalaru - Nattupura elakkiyankal
14	4	Sirukathaikal : jail, Minnal - ki. Ra
15	44	Sirukathai : elzutha marantha kathai - ki. Ra

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LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SEMI – MICRO QUALITATIVE ANALYSIS 1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identify...
2	1	SEMI – MICRO QUALITATIVE ANALYSIS 1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identify...
3	1	SEMI – MICRO QUALITATIVE ANALYSIS 1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identify...
4	1	SEMI – MICRO QUALITATIVE ANALYSIS 1. Analysis of simple acid radicals: Carbonate, Nitrate, Sulphate, Chloride 2. Analysis of interfering acid radicals: Fluoride, Oxalate, Borate, Phosphate 3. Elimination of interfering acid radicals and identify...
5	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
6	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
7	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
9	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
10	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
11	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
12	1	SEMI – MICRO QUALITATIVE ANALYSIS 4. Analysis of basic radicals (group-wise): Lead, Copper, Bismuth, Cadmium, Aluminium, Iron, Cobalt, Nickel, Manganese, Zinc, Barium, Calcium, Strontium. 5. Analysis of mixtures containing two cations and two anions (...
13	2	PREPARATION OF INORGANIC COMPOUNDS 1. TetrammineCopper(II) Sulphate 2. Tris(thiourea)Copper(I) Chloride
14	2	PREPARATION OF INORGANIC COMPOUNDS 3. Ferrous Ammonium Sulphate 4. Microcosmic salt
15	2	PREPARATION OF INORGANIC COMPOUNDS 5. Potassiumtrisoxalato ferrate (II) 6. Chloropentammine Cobalt(III) Chloride

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LESSON PLAN

Name of the Staff	**DEVI SHYAMALA MARY C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**AMT202T : ALLIED MATHEMATICS - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansions of sin n ?, cos n ?,
2	1	Expansion of sinn ?,cosn?,
3	1	tann? – Expansions of sin ?, cos ?, tan ? in terms of ?
4	1	Hyperbolic and inverse hyperbolic functions
6	3	Vector functions- Derivative of a vector function- Scalar and vector point functions-
7	3	Gradient of a scalar point function- Gradient- Directional derivatives
8	3	Unit vector normal to a surface ,angle between the surfaces

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	angle between the surfaces-divergence, curl.
10	4	Green's theorem in the plane-
11	4	Gauss divergence theorem-
12	4	Stoke's theorem [without proofs].
13	4	continued
14	5	Newton – Gregory forward & backward formulae for interpolation
15	5	Lagrange's interpolation formula for unequal intervals(without proof) .
5	1	Logarithms of complex numbers.

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LESSON PLAN

Name of the Staff	**IMMANUEL S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19CH203 : INORGANIC CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Atomic orbitals - Shapes of s, p, d, f orbital. Hund's rule of maximum multiplicity-applications of Hund's rule-
2	1	exclusion principle - electronic configuration of elements - Stability of half filled and completely filled orbitals - classification of s, p, d and f block elements
3	1	General periodic properties of elements - Periodic table- IUPAC - nomenclature of Inorganic compounds -
4	1	Applications of electronegativities – Calculation of partial ionic character of a covalent bond, Calculation of enthalpies of formation of compounds - Calculation of bond lengtH
5	2	2.1 Chemistry of Alkali metals: Occurrence, comparative study of elements - oxides, halides
6	2	2.2 Chemistry of Alkaline earth metals: Comparative study of elements – oxides - hydroxides
7	2	. Diagonal relationship of Be and Al. Comparison of alkali metals with alkaline earth metals. Mg acting as bridging element between II A & II B groups resemblance of Mg with Zn.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	2.3 Hydrogen bonding – Intra and Inter molecular hydrogen bonding – properties of hydrogen bonded Nitrogen,
9	3	3.1 Chemistry of p – block elements – Boron family- semi metals - group discussion – anomalous behavior of B - diagonal relationship between B & Si
10	3	Borax, sodiumborate, sodiumtetraborate, or disodiumtetraborate - Boric acid. 3.3 Compounds of Boron with Nitrogen - Borazole and Boron nitrides.
11	4	4.1 Ionic Bond : Conditions for the formation of ionic bond – Radius ratio rules and its limitations – formation of NaCl
12	4	Born Haber cycle– General properties of ionic compounds. 4.2 Covalent bonding: Polarization and Fajan's rule, Effects of polarization, VBT- conditions for the formation of covalent bond
13	4	Acid- Base concepts – Lewis, Lowry-Bronsted, Luxflood, Usanovich concepts & HSAB approach.
14	5	5.1 VSEPR Theory: Molecular shapes predicted by Sidgwick's Powell theory – Effect of lone pairs and Electronegativity –
15	5	H2, N2, O2, CO, NO & HCl – bond order and stability of molecules.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**IMMANUEL S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CHP202 : INORGANIC QUALITATIVE ANALYSIS - PRACTICAL II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SELINIUM
2	2	TELLURIUM
3	3	TUNGSTEN
4	4	LEAD
5	5	COPPER
6	6	BISMUTH
7	7	MAGNESIUM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	ALUMINIUM
9	9	NICKEL
10	10	ZINC
11	11	CHROMIUM
12	12	MOLIBTINUM
13	13	LITHIAM
14	14	TITANIUM
15	15	ZIRCONIUM

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**AMT101Q : Allied Mathematics - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Theory of equation,Polynomial equations with real co.efficients.
2	1	Polynomial equation with irrational roots and imaginary roots.
3	1	Solving equations with related roots. Equation with given number of roots, Equation whose roots are symmetric functions of roots of a given equation.
4	2	Transformation of an equation by diminishing its roots by a constant.
5	2	Reciprocal equations, Approximate roots.
6	2	Newton's method to find a root approximately.
7	3	Eigen values and eigen vectors.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cayley-Hamilton theorem.
9	3	Inverse of a matrix.
10	4	n that derivatives, Jacobson.
11	4	Leibnitz's theorem.. Based problems.
12	4	Curvature and radius of curvature... Based problems.
13	5	Multiple integrals, double and triple integrals
14	5	Applications of multiple integrals, Area as a double integral.
15	5	Mass centre. Triple integrals... Problems based on multiple integrals.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH101B : ORGANIC CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	IUPAC nomenclature of organic compounds- naming of simple organic Molecules, Practicing line formula for organic molecules
2	1	The geometry of molecules – Hybridisation - sp3 with examples
3	1	The geometry of molecules – Hybridisation - sp2, sp with examples
4	1	Cleavage of Bonds – Homolytic and heterolytic cleavage
5	2	Alkanes – methods of preparation: Wurtz reaction, hydrogenation of alkenes,
6	2	Alkanes – methods of preparation: hydrolysis of Grignard reagents, Kolbe's method
7	2	Alkanes – Physical and Chemical properties of alkanes.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Cycloalkanes – Preparation using Wurtz's reaction – Dieckmann's ring closure and reduction of aromatic hydrocarbons
9	2	Cycloalkanes – Substitution and ring opening reactions of cycloalkanes
10	2	Bayer's strain theory and theory of strainless rings
11	5	Conformational isomerism: Conformers, Dihedral angle, torsional strain
12	5	Conformational analysis of ethane and n-butane.
13	5	Geometrical isomerism: Cis – trans, syn-anti and E-Z notations, Methods of distinguishing geometrical isomers using melting point
14	5	Methods of distinguishing geometrical isomers using dipole moment, dehydration,
15	5	Methods of distinguishing geometrical isomers using cyclization and heat of hydrogenation.

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LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular - Thirumanthiram Thondaradi Podiyalvar - Thirumalai
2	1	Thirunavugarasar-Thevaram Manikkavasagar- Thiruvasagam
3	1	Andal - Thirupavai Pattinathar - Pulampal
4	4	Sampanthar, Suntharar Alvargal Muthal Alvargal Muvar Mattum
5	5	Mozhithiran -Tamilil pera Thuraigal Ariviyal Atchithurai Kanini Pulanguporul
6	5	Mozhipeyarpu kadithangal Tamil Mozhi Peyarpu
7	4	Orainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai Thuroga suvadugal - Eraianpu
9	3	Urainadai Thuroga suvadugal - Eraianpu
10	3	Urainadai Thuroga suvadugal - Eraianpu
11	4	Elakkiyavaralaru Sitrilakkiyangal - Thudu, oola, Kuravanchi,Anthathi
12	4	Elakkiyavaralaru Esulamum Tamilum
13	2	Sitrilakkiyangal Masthan Sakipu - Paraparakanni Kumarakuruparar - Pillai Tamil
14	2	Sitrilakkiyangal Kaligathu Parani -Porgalam Nanthikalampagam - Nanthivarman
15	2	Sitrilakkiyangal Mukkudar Pallu - PallargalinValam

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Ramalinga adigal
2	1	Parathiyar and Parathidasan
3	1	Kavimani thesiyavinayagam pillai (asiya jothi)
4	3	Erupatham nutrandu kavinargal
5	3	Serugathaen thotramum valarchium
6	5	Elakkanam (vallotru megum edam mega edam)
7	4	Sirukathaigal - kathavu, kudumpathil oru napar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Erupatham nootrandu kavinargal
9	3	Sirugathaien thotramum valarsiyum
10	4	Sirukathaigal-jail, Minnal, ezhuthamaranthagathai
11	2	Kavithai-Abdul raguman, Medtha
12	2	Vairamudthu kavithaigal, Thamilatchi kavithai
13	2	Nattupura padalgal
14	3	Puthukavithaen thodramum valarchium
15	3	Nattupura elakkiyangal

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**CH204Q : ANALYTICAL CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Theory of Errors
2	1	The idea of significant figures and its importance with examples
3	1	Precision, Accuracy- methods of expressing accuracy
4	1	Error analysis – minimizing errors
5	1	Method of expressing precision – average deviation
6	1	Standard deviation – Confidence limit.
7	3	Chemical formulae and percentage composition – Determination of empirical Formulae and molecular formulae. Laws of chemical combination: Law of conservation of mass

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Law of constant composition – Law of multiple proportions – Law of reciprocal proportions – Gay Lussac's law of Gaseous volumes.
9	4	Chemical Instrumentation: Elementary Electronics, Simple integrated circuit
10	4	Semiconductor, Power supply, transformer
11	4	Operational amplifier, Detectors (Oscilloscope and recorders)
12	4	Transducers, Rectifiers, Signal to noise ratio
13	4	Electronic components (Resistors, capacitors, inductors, and transistors)
14	4	Measuring instruments for pressure, temperature, current and voltage.
15	4	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**CH101B : ORGANIC CHEMISTRY - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	alkenes- preparations
2	3	reactions of alkenes
3	3	Hydroboration, Ozonolysis
4	3	E1, E2 elimination with mechanism
5	1	Bond angle, Bond length, Bond energy
6	1	Inductive effect, Mesomeric effect, Steric effect
7	1	Reactive Intermediates: Carbocations, Carbanions, Carbenes and free radicals.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Alkynes – Sources of Alkynes - Nomenclature – acidity of alkynes – addition reactions – hydrogenation, Hydrohalogenation, Hydration with HgSO4
9	4	Preparation of Alkynes by elimination reactions , Ozonolysis of alkynes Alkylation of alkynes using acetylides.
10	4	Dienes - preparation of dienes, classes of dienes -
11	4	conjugated, isolated and cumulative - stability of dienes -
12	4	addition of hydrogen halides & halogens to conjugated dienes -
13	4	Polymerization of dienes– Diels-Alder reaction - Problems
14	4	Allenes – preparation and structure.
15	4	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sounds - consonants Meeting people, Exchanging greetings and taking leave Introduce people to others Robert lynd - Forgetting
2	1	Letter writing informal letter The sentence Parts of speech Speech sounds-pure vowels
3	2	Giving personal information Talking about people Poem :Mending wall-Robert frost Letter writing - formal letter
4	2	Nouns classes and gender Nouns Number and case Adjectives Comparison of adjectives
5	3	Diphthongs Taking and leaving messages Making enquiries on the phone Time and love poem _William shakespeare Dialogue writing
6	3	Articles Pronouns_personal, reflexive and Emphatic Pronouns _demonstrative, indefinite, interrogative, distributive and Reciprical Pronouns_Relative
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA EXAMINATION
9	4	Prose:Mother Teresa-john Frazer Phonetic Transcription Answering the Telephone and asking for someone
10	4	One act play :The best laid plans_Farrel Mitchell Verbs _transitive and intransitive Verbs - active and passive voice
11	5	Voiced and voiceless sounds Dealing with a wrong number Short story:The selfish giant _Oscar wilde
12	5	Reading comprehension Verbs_Mood and tense Concord or agreement of the verb with the subject
13	2	Slip test/Revision
14	2	II CIA EXAMINATION
15	2	Overall Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs 1.making request and responding to request 2.thanking someone and responding to thanks Precis writing
2	1	Prose : how to be a doctor - Stephen leacock Non-finite verbs Strong and week verbs The auxiliaries
3	2	Strong and weak forms in transcription 1.inviting accepting and refusing an invitation 2.apologising and responding to an apology
4	2	Poem: auguries of innocence -William Blake Note making Use of wrong prepositions Unnecessary use of articles
5	3	The relationship between spelling and sound Paying compliment showing appreciation offering encouragement and responding to them
6	3	Prose : my visions for India - A.P.J. ABDUL KALAM Report writing Punctuation and capital
7	1	I CIA- Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Sentence Transcription Punctuation and capitals
9	4	Poem: IF - Rudyard Kipling Paragraph writing Personal details
10	4	One -act Play : The Merchant of Venice - William Shakespeare -Trial for a pound of Flesh
11	5	Transcribing short passages Asking for Directions and Giving Directions
12	5	Biography : Kiran Bedi - parmesh dangwal
14	2	II -CIA Examination
15	3	Revision
13	5	1.use of wrong tenses 2.The uses of prefixes and suffixes

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LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Puranannuru, Aganannuru, kurunthogai
2	1	Natrinai,Eykurunoor kalithogai
3	1	paripadal
4	4	Eattu thogail
5	4	nethinoolkal
6	3	Thirukural
7	3	thirukural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	surukivaraithal
9	5	Nerkannal
10	4	Patthupattu
11	2	Nedunelvadai 1-30
12	2	Nadunelvadai 31-62
13	2	Sirupanatrupadai
14	2	Madhuraikanchi
15	2	mullaipattu

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LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of computer based chemistry
2	1	Sample programme-1
3	1	Sample programme-2
4	1	Sample programme-3
5	1	Determination of electro negativity of an atom from Bond Energy data using Pauling's relation
6	1	Determination of Lattice energy of a crystal using Born-Lande Equation
7	1	Shapes of molecules or ions using VSEPR Theory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Deriving Empirical Formula from Elemental Analysis
9	1	Calculation of PH and POH
10	1	Determination of Solubility of sparingly soluble salts
11	1	Determination of Normality, Molarity and Molality of the solution
12	1	Determination of Half life and average life of a radioactive nucleus
13	1	Calculation of Inter-Planar Distance for Planes
14	1	Calculation of Equivalent Weight of Acids, Base and Salts
15	1	Determination of Half life and average life of a radioactive nucleus

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aganaanuru Puranaanuru
2	1	Kurunthogai Natrinai Aingurunuru
3	1	KALITHOGAI PARIPAADAL
4	4	Ettuthogai
5	4	Keezhkanakkil neethinoolgal
6	3	Thirukkural arivudaimai
7	3	Natparaithal pulavinunukkam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Surukki varaithal Mozhithiran
9	5	Neirkkanal Mozhithiran
10	4	Pathuppaattu
11	2	Nedunalvaadai 1 to 30
12	2	Nedunalvaadai 31 to 62
13	2	Sirubaanaatruppadai
14	2	Madhuraikkanji
15	2	Mullaipaattu

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH408T : INTRODUCTION TO MOLECULAR STRUCTURE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction- Introduction to molecular structure.
2	2	Chemical bond-classification of bonds-potential energy curves.
3	2	VBT-diatomic molecules.
4	2	Poly atomic molecules-promotion and hybridization-resonance.
5	2	Molecular orbitals-linear combinations of atomic orbitals-bonding orbitals -anti bonding orbitals.
6	2	Structure of diatomic molecules- hydrogen and helium molecules.
7	2	Explanation of period 2 diatomic molecules.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Electric and magnetic properties – Clausius-Mosotti equations.
9	3	Debye equation – measurement of dipole moments.
10	3	Dependence of polarizability on frequency.
11	4	Group theory – symmetry elements and operations –
12	4	Classes and subgroups –group multiplication table-
13	4	Postulates of a group.
14	4	Solid state- Amorphous and crystalline- classification of crystalline solids- bonding and electrical conductivity in solids.
15	4	Crystal lattices and unit cells-Bravais lattices. Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACCH401S : ALLIED - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	11	Programming Language: History of computer-Introduction to Algorithm-Flow chart-
2	1	structure of programming language C Fundamentals:
3	1	Chapter set- Identifiers-keywords--Constants-
4	1	Data types-Variables-Declarations-Expressions-Statements.
5	2	Control statements: Data Input/output functions-
6	2	simple C programs-Operators-
7	2	Library functions-Flow of control-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Control structures-switch, break and continue-go to statement.
9	3	sample programs using functions
10	4	Arrays: Defining and processing-Types Arrays-
11	4	string Functions- strlen()-strcpy()-strcat()-strcmp()-strlwr()-strupr()-strrev()-
12	4	Structures.Determination of Half Life and Average Life of a Radioactive nucleus-
13	4	Determination of Normality, Molarity and molality of solutions-
14	4	Calculation of Equivalent weight of acids, bases and salts.
15	4	sample programs on all concepts-revision

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LESSON PLAN

Name of the Staff	**ISABELLA AMALI A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACHP401S : ALLIED PRACTICAL - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample programs-printing a statement, printing a pattern(*), using printf, using scanf, printing a value,Adding two numbers, Getting and adding two numbers
2	1	Determination of electronegativity of an atom using pauling's relation
3	1	Shapes of molecules or ions using VSEPR Theory
4	2	,loops
5	2	if conditions
6	3	Deriving Empirical Formula from Elemental Analysis
7	3	Calculation of PH and POH

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Determination of Solubility of sparingly soluble salts
9	3	Determination of Normality, Molarity and Molality of the solution
10	3	Determination of Half life and average life of a radioactive nucleus
11	4	array
12	4	model practical
13	5	Calculation of Equivalent Weight of Acids, Base and Salts
14	5	Calculation of Inter-Planar Distance for Planes
15	5	sample programrevison

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH306S : ANALYTICAL CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The principle involved in thermogravimetric analysis and differential thermal analysis- Discussion of various components with block diagram
2	1	Characteristics of TGA&DTA- Factors affecting TGA & DTA curves
3	1	Thermometric titrations.
4	3	Principle – concentration polarization- dropping mercury electrode- advantages and disadvantages – convention- migration and diffusion currents
5	3	5.Ilkovic equation (derivation not required) and significance- experimental assembly- electrodes- capillary solutions- current voltage curve.
6	3	oxygen wave- influence of temperature and agitation on diffusion layer- Polarography as an analytical tool in quantitative & qualitative analysis. Amperometry – basic principle & uses
7	3	Polarimetry principle- instrumentation- comparison of strengths of acids- Estmation of glucose.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Exam
9	3	Hardness of water – Hard water – soft water – Temporary and permanent hardness-
10	5	problems on calculating temporary and permanent hardness.
11	5	Estimation of hardness using EDTA method and their problems – Water treatment – lime soda process – calculation of amount of soda lime required for water softening
12	5	zeolite process – problems – Demineralisation process – Reverse osmosis
13	5	Electrodialysis – biological oxygen demand – chemical oxygen demand – .treatment of domestic water supply – sedimentation coagulation – filtration – sterilization of water
14	5	CIA EXAM
15	5	Revision

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CHP404 : PHYSICAL METHODS - PRACTICAL IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
2	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
3	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
4	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
5	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
6	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
7	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
9	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
10	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
11	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
12	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
13	1	Determination of melting point : Determination of boiling point ; Determination of surface tension ; Determination of viscosity
14	1	Purification of impure Naphthalein
15	1	Model exam

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**ACCH401S : ALLIED - COMPUTER IN CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Determination of Electro negatively of an atom from bond energy data using pauling's relation
2	3	Determination of Lattice Energy of a Crystal using born-Lande equation
3	3	shapes of molecules or ions using VSEPR theory
4	3	Deriving empirical formula from elemental analysis
5	3	calculation of PH and POH
6	3	Determination of solubility of sparingly soluble salts
7	3	calculation of inter planer spacing for different planes in an orthorhombic crystal.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision
9	5	Application of CHEM DRAW for organic molecule
10	5	Application of CHEM DRAW for organic molecule
11	5	Application of CHEM DRAW for inorganic molecule
12	5	ISIS Draw for organic molecule
13	5	ISIS Draw for inorganic molecule
14	5	Revision
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH408T : INTRODUCTION TO MOLECULAR STRUCTURE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Quantum numbers- wave functions
2	1	Quantum Chemistry – the failures of classical physics-block body radiation
3	1	Photoelectric effect –diffraction of electrons
4	1	Schrodinger equation –the Born interpretation-uncertainty principle.
5	1	s orbitals-p and d orbitals-electron spin
6	3	Molar refractivity – dipole moments and molecular structure – magnetic permeability – magnetic susceptibility
7	3	diamagnetism – Para magnetism – measurement of magnetic susceptibility

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revision
9	5	General features of spectroscopy – experimental techniques – intensities & line widths
10	5	rotational spectroscopy-the rotational energy levels of molecules-rotational transitions-
11	5	microwave spectroscopy-rotational Raman spectra.
12	5	vibrational spectroscopy – the vibrations of molecules – transitions
13	5	vibrational Raman spectra of diatomic molecules-vibrations of polyatomic molecules and vibrational Raman spectra of polyatomic molecules.
14	5	Electronic transitions – UV and visible spectra –Franck Condon principle-measures of intensity-spin selection rules, spectral transitions and types of transitions.
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**APHP301 : ALLIED PHYSICS PRACTICAL**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Experiment - I
2	1	Experiment - 2
3	1	Experiment - 3
4	2	Experiment - 4
5	2	Experiment - 5
6	2	Experiment - 6
7	3	Experiment - 7

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Experiment - 8
9	3	Experiment - 9
10	4	Experiment - 10
11	4	Revision
12	4	Revision
13	5	Revision
14	5	Revision
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Silapathigaram - Vazhakgurai kathai
2	1	1.2. Manimegalai - Aaputhiranodu manipallavam adaintha kaathai
3	4	4.1. Impernkappiyam
4	4	4.4. sozharkala kappiyangal 4.5. Incirukappiyam
5	2	2.1. Seevaga sinthamani
6	5	5.1. Banpalai vanoli nigazhci thoguppu 5.2. Vadikkaiyalar Sevai maiya Aluvalar
7	5	5.3. Suttrula vazhikkatti 5.4. Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.5. Pothukatturai
9	2	2.2. kammparamayanam - Angathanthoothu padalam
10	2	2.2. kammparamayanam - Angathanthoothu padalam
11	3	3.1. Periyapuraanam - Kazharsinganayanar puranam
12	3	3.2. Irachaniyayathrigam - Siluvaipaadugal
13	3	3.3. Sirapuranam - Pulivasanithapadalam
14	4	4.2. Kirishthava kappiyangal
15	4	4.3. Islamiya kappiyangal

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH407S : ORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nucleophiles – Nucleophilicity. Aliphatic nucleophilic substitution – Mechanisms of SN1,
2	1	SN2,and SNi. Energy Profile diagrams
3	1	Effects of nature of substrates, solvent, nucleophile,andleaving groups.
4	1	Leaving ability of the leaving groups. Basicity and Nucleophilicity – a comparison.
5	1	Substitution Vs elimination – with examples.
6	1	Stereochemistry of Substitution reactions – a brief introduction.
7	3	Alcohols – Sources – Nomenclature – Preparation by reduction of aldehydes, Ketones, acids,and esters. Preparation using Grignard reagents. Types of Alcohols and their reactivity. Diols and polyhydric alcohols.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Reactions of alcohols – oxidation, esterification,and dehydration. Cleavage of Diols using periodic acid (HIO4) and lead tetraacetate.
9	3	Allyl alcohol – its preparation. Allylic substitution using N-bromosuccinimide (NBS).
10	4	Preparation of aldehydes and ketones: Rosenmund and Gattermann -Koch reactions.
11	4	Reactivity of carbonyl groups, the acidity of alpha hydrogen.
12	4	Reactions: Mechanism of enolization reactions, nucleophilic addition, oxidation and reduction reactions
13	4	addition reactions with Grignard reagents, cyanide and bisulphate. Preparation of derivatives of ammonia and alcohols.
14	4	Mechanism of aldol, Cannizaro perkin, knoevenagel reactions. Benzoin condensation, Claisen reactions.
15	4	Mechanisms of reductions with NaBH4, LiAlH4, Wolff-Kishner, Clemmensen,and MPV reductions.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Silappathikaram - vazhakkurai kathai
2	1	Manimegalai - Aaputhiranodu mani pallavam adaintha kathai
3	4	Impem kappiyankal
4	4	Insiru kappiyankal, solarkala kappiyankal
5	2	Seevaga sinthamani- Namagal elambakam
6	5	Panpalai vanoli nigazhchi thoguppu, vadikkaiyalar sevai maiya aluvalar
7	5	Sutrula vazhikatti, kaditham

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Pothu katturai
9	2	Kamba ramayanam -Angathan thoothu padalam
10	3	Periya puranam - kazhar singa nayanar puranam
11	3	Ratsinaiya yathrigam - siluvai padukal
12	3	Serapuranam - puli vasinitha puranam
13	4	Kristhuva kappiyankal - mudhal paguthi
14	4	Islamiya kappiyankal
15	4	Kristhuva kappiyankal - irandam paguthi

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananuru 183,193,Agananuru 2,104
2	1	Kurunthogai- 3,40,Nattirinai 149,110,Inguru nooru vetgai pathu1-5
3	1	Kalithogai palaikali 9,11, paripadal thirumal monravathu padal
4	4	Ettuthogai noolgal
5	4	Kezhkanakkil nethi noolgal
6	3	Thirukkural Arivudamai, Natparaithal
7	3	Thirukkural Pulavi nunukkam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran pathigaigalil seithi varaithal, surukki varaithal
9	5	Mozhi thiran Nerkanal
10	4	Pathupattu noolkal
11	2	Nedunalvadai, 1-30
12	2	Nedunal vadai lines 31-62
13	2	Siripanatru padai
14	2	Madurai kanchi
15	2	Mullai pattu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Welcoming and gathering NARRATION VOTE OF THANKS INTRODUCING A GUEST TO AUDIENCE
2	1	Refund -ONE ACT PLAY PUBLICITY LITERATURE
3	2	QUIT INDIA- MAHATMA GANDHI TRYST WITHDESTINY -JAWAHARAL NEHRU SOCIAL ISSUES
4	2	SPOTTING ERRORS THE BEAR -ONE ACT PLAY
5	3	I HAVE A DREAM - MARTIN LUTHER KING GETTYSBURG ADDRESS- ABRAHAM LINCOLN NEWS REPORT WRITING
6	3	THE HOUR OF TRUTH- ONE ACT PLAY E-MAIL-WRITING
7	3	I- CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Prose Inaugural Address by John F Kennedy Prepared to Die
9	5	Presentation skills Autobiography Sorrows of Childhood by Charles Chaplin
10	5	Resume Writing
11	5	Some useful expressions Speech writing
12	5	Biography Marie Curie by Colin Mitchell
13	5	Biography Sarojini Naidu by Padmini Sengupta Minutes Writing
14	5	II-CIA
15	5	Revision and Seminar

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LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**AOFT301 : FOOD PROCESSING TECHNOLOGY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aim and objectives of preservation and processing of foods, Classification of food by ease of spoilage
2	1	Methods of food preservation, Principles of food preservation, Asepsis
3	1	Removal of microorganisms, Maintenance of anaerobic conditions
4	2	Preservation of food by use of high and low temperature. Factors affecting heat resistance (Thermal death time)
5	2	Heat penetration, heat treatments employed in processing foods
6	2	Canned foods, low temperature storage, Chilling and freezing, freezing of foods and its consequences.
7	3	Preservation of foods by drying, Additives and radiation. Methods of drying, Treatments of foods before drying. Procedures after drying.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Intermediate moisture foods, Antimicrobial preservatives, added preservatives, Developed preservatives.
9	3	Ultra violet radiation, ionizing radiations, Gamma rays and cathode rays, microwave processing
10	4	Food sanitation, Microbiology of the food product, Good manufacturing practices
11	4	Hazard analysis critical control points, health of employees, food control, enforcement and control agencies
12	4	International agencies (FAO, WHO, FDA& ISO), National agencies (Agmark, ISI, BIS)
13	5	Food and Food components, Food adulteration, food additives
14	5	Dairy technology, Market milk, Special milk, Cream, Butter, Ice cream, Cheese
15	5	Dried milk products, packaging of milk and milk product

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH305T : INORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Carbon family: Group discussion - valencies, oxides, halides
2	2	hydrides of C and Si - catenation and hetero catenation
3	2	allotropy of carbon, comparison of properties of C & Si
4	2	Carbides: salt like carbides – Interstitial carbides covalent carbides – applications of carbides in Industry
5	2	Types of chemical reactions: Acid – Base, oxidation – reduction, electron transfer, double decomposition reaction
6	2	balancing chemical reactions by oxidation number and ion, electron method.
7	3	Nitrogen family - Comparative study of N, P, As, Sb, Bi oxides – N_2O_3, P_4O_6, N_2O_5 and P_4O_{10}.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Oxy-acids: HNO2, HNO3, H3PO2, H3PO3 and H3PO4 – properties and structure
9	3	Halides – PCl3, PCl5 – properties and structure and hydrazine and hydroxylamine
10	3	Hydrides – NH3, PH3, AsH3 and BiH3 – structure, trends in boiling point, basic character and hydrogen bonding. Properties
11	4	Halogens – Comparative study of F, Cl, Br, I, At elements
12	4	comparison of fluorine with oxygen – hydrogen halides – preparation and properties of HF, HCl, HBr and HI – Bleaching powder, estimation of available of chlorine
13	4	Oxyacids of halogens – Sodiumhypochloride and Soduim chlorite – Poly halides - interhalogen compounds (ClF3, ICl, BrF3, ClF5, BrF5, IF5 structure and properties
14	4	Psuedo halogens (CN $^{-}\neg$, SCN^{-}, N3– structure and properties). Basic properties of halogens - positive iodine
15	4	exceptional properties of fluorine, similarities between H2O & HF.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**CH407S : ORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Aromaticity – Huckel's theory of aromaticity and its applications to Benzene and polynuclear hydrocarbons like naphthalene
2	2	Resonance and delocalization in benzene. Examples of aromatic, anti-aromatic and non-aromatic compounds. Problems
3	2	Aromatic electrophilic substitution. Mechanisms of Nitration, halogenation, Sulfonation. Friedel – Crafts alkylation and acylation
4	2	Substituent effects in Aromatic electrophilic substitution. Reactivity and orientation. Ortho-para ratio. Problems
5	2	Synthesis of simple substituted benzenes using the above reactions.
6	2	Aromatic nucleophilic substitutions. The addition-elimination mechanism AdE2. The elimination-addition mechanism - Benzyne mechanism.
7	3	Phenols – Nomenclature – structure,and bonding. Sources of phenols –the acidityof phenol and substituent effects on its acidity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Reactions of phenols: Reimer-Tiemann, Kolbe-Schmidt, Lederer-Manasse reactions and coupling with diazonium salts. Problems
9	3	Ethers – Nomenclature – structure and bonding – Preparation – Williamson synthesis. Cleavage of ethers by acids.
10	5	Carboxylic acids – nomenclature.
11	5	Ionization of carboxylic acids – acidity constants. Comparison of acid strengths of substituted haloacids and substituted benzoic acids.
12	5	Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction.
13	5	Conversion of acids to their derivatives
14	5	Dicarboxylic acids – nomenclature.
15	5	Preparation and properties of oxalic, malonic,succinic, glutaric and adipic acids

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LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH306S : ANALYTICAL CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Principles involved in the separation of solids- Purification of solid organic compounds
2	2	Crystallisation- Fractional crystallization
3	2	Sublimation- Purification of liquids- Experimental techniques of distillation
4	2	Fractional distillation- Vacuum distillation
5	2	Steam distillation- Electrophoresis
6	1	Characteristics of precipitating agents- Choice of precipitants and conditions of precipitation
7	1	Specific and selective precipitants- Use of sequestering agents- Co-precipitation- Post precipitation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Peptisation- Differences- Reduction of error –Precipitation from homogeneous solution- Calculations in gravimetric methods- use of gravimetric factors
9	4	Absorption laws- calculations involving Beer – Lambert's law – instrumentation
10	4	photocalorimeter and spectrophotometer – block diagram with a description of components with the theory
11	4	types of electronic transitions – chromophore – auxochromes
12	4	absorption bands and intensity – factors governing absorption maximum and intensity.
13	4	Bragg's equation – explanation of terms
14	4	experimental methods – Rotating crystal technique – powder technique
15	4	determination of the structure of NaCl.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**CH305T : INORGANIC CHEMISTRY - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Solubility products, common ion effect
2	1	ionic equilibrium, spot test reagents
3	1	Vander Waals force,
4	1	1.2 Types of solvents: Physical properties of solvents, protic and aprotic solvents, amphiprotic solvent
5	1	amphoteric solvents – aqueous and non aqueous solvents – Liquid NH3 as a solvent , HF as a solvent
6	3	Oxygen family: Comparative study of O, S, Se, Te elements – anomalous behavior of Oxygen, oxides of sulphur – SO2 and SO3, properties and structure.Oxoacids of sulphur – H2SO3, H2SO4 and H2S2O7, properties and structure.
7	3	Peroxosulphuric acids- Caro's acid, Marshall's acid - structure and comparison

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Dithionic and Polythionic acids. Chemistry of ozone
9	4	Halogens – Comparative study of F, Cl, Br, I, At elements – reactivities – comparison of fluorine with oxygen – hydrogen halides –
10	4	Preparation and properties of HF, HCl, HBr and HI – Bleaching powder, estimation of available of chlorine.
11	4	Oxyacids of halogens – Sodiumhypochloride and Soduim chlorite – Poly halides.
12	4	Interhalogen compounds (ClF3, ICl, BrF3, ClF5, BrF5, IF5 structure and properties)
13	4	Psuedo halogens (CN^-, SCN^-, N3– structure and properties). Basic properties of halogens - positive iodine.
14	4	exceptional properties of fluorine, similarities between H2O & HF.
15	4	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock interviews/Actual interviews Facing an interview Tele-interviews
2	2	Seminar skills Drama: Macbeth he kills sleep- William Shakespeare
3	2	Description Words often confused The count of monte cristo (1-10) by Alexandra Dumas
4	2	The count of monte cristo (chapter 11-20) by Alexandra Dumas Idioms and phrases
5	3	Homonyms and similar words Tele conferences The use of graphics
6	3	Drama: Julius Caesar- Shakespeare Drama: Henry IV Shakespeare
7	3	Handling customers or clients Receiving visitors The count of monte cristo (21-30) by Alexandra Dumas

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA EXAMINATION
9	4	Novel: As you like it by William Shakespeare
10	4	Play: Hamlet by William Shakespeare Negotiations
11	4	Novel: The Count of Monte Cristo- Alexandre Dumas(31-40) Novel: The Count of Monte Cristo- Alexandre Dumas(41-49)
12	4	Homophones Booking hotel Accommodation Making small talk and telling stories
13	5	Group discussion Making Appointments Cancelling and Rescheduling Appointments Writing review of Books
14	5	Revision
15	5	II CIA EXAMINATION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management:
12	4	causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**APH301T : ALLIED PHYSICS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bending of beam: Non uniform bending- Torsion of wire- Torsional pendulum
2	1	Sound: Transverse vibrations of a stretched string- expression for the velocity of transverse wave – laws of transverse vibrations
3	1	A.C frequency measurement using sonometer- velocity of sound in a gas-Ultrasonics-production and uses.
4	5	FET-characteristics-parameters-FET as amplifier-
5	5	IC-SSI LSI MSI-VLSI IC fabrication
6	5	Diode-flip flops-RS flip flops-D flip flops-JK flip flops .
7	2	Capacitor- energy of charged capacitors- loss of energy due to sharing of charges DC circuits

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Growth and decay of charge containing resistance and capacitor (RC) circuit & inductance and resistance (LR) circuit .
9	2	Potentiometer-measurement of internal resistance of a cell and unknown resistances – Moment, Tan C and pole strength of a magnet
10	4	Elements of relativity and Postulates of theory of relativity-Lorentz transformation equations-
11	4	Derivation Addition of velocities-twin paradox Minkowski's four dimensional space. Quantum mechanics: De Broglie's waves - Uncertainty principle
12	4	Postulates of wave mechanics- - Schrodinger's equation (Time dependent one dimensional) - application to a particle in a box.
13	5	Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate-Determination of diameter of a thin wire by air wegdge.
14	5	spherical aberration – minimizing spherical aberrtion by using two thin lenses in contact-chromatic aberration-
15	5	achromatic combination of two thin lenses in contact-optical activity-specific rotatory power-polarimeter.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**APHP301 : ALLIED PHYSICS PRACTICAL**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Determination of Young's modulus –non-uniform bending - Pin and microscope. 2. Determination of Rigidity modulus- Torsional pendulum 3. Sonometer –frequency of tuning fork. 4. Sonometer – A.C frequency -Brass wire. 5. Construction of AND,...
2	2	1. Determination of Young's modulus –non-uniform bending - Pin and microscope. 2. Determination of Rigidity modulus- Torsional pendulum 3. Sonometer –frequency of tuning fork. 4. Sonometer – A.C frequency -Brass wire. 5. Construction of AND...
3	3	1. Determination of Young's modulus –non-uniform bending - Pin and microscope. 2. Determination of Rigidity modulus- Torsional pendulum 3. Sonometer –frequency of tuning fork. 4. Sonometer – A.C frequency -Brass wire. 5. Construction of AND...
4	4	1. Determination of Young's modulus –non-uniform bending - Pin and microscope. 2. Determination of Rigidity modulus- Torsional pendulum 3. Sonometer –frequency of tuning fork. 4. Sonometer – A.C frequency -Brass wire. 5. Construction of AND...
5	5	1. Determination of Young's modulus –non-uniform bending - Pin and microscope. 2. Determination of Rigidity modulus- Torsional pendulum 3. Sonometer –frequency of tuning fork. 4. Sonometer – A.C frequency -Brass wire. 5. Construction of AND...
6	6	6. Sonometer – A.C frequency - Steel wire 7. Spectrometer – Grating-Minimum deviation 8. Air wedge – thickness of a wire. 9. Figure of merit of a galvanometer (Table galvanometer). 10. Potentiometer – Measurement of Internal resistance of ...
7	7	6. Sonometer – A.C frequency - Steel wire 7. Spectrometer – Grating-Minimum deviation 8. Air wedge – thickness of a wire. 9. Figure of merit of a galvanometer (Table galvanometer). 10. Potentiometer – Measurement of Internal resistance of ...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	6. Sonometer – A.C frequency - Steel wire 7. Spectrometer – Grating-Minimum deviation 8. Air wedge – thickness of a wire. 9. Figure of merit of a galvanometer (Table galvanometer). 10. Potentiometer – Measurement of Internal resistance of ...
9	9	6. Sonometer – A.C frequency - Steel wire 7. Spectrometer – Grating-Minimum deviation 8. Air wedge – thickness of a wire. 9. Figure of merit of a galvanometer (Table galvanometer). 10. Potentiometer – Measurement of Internal resistance of ...
10	10	6. Sonometer – A.C frequency - Steel wire 7. Spectrometer – Grating-Minimum deviation 8. Air wedge – thickness of a wire. 9. Figure of merit of a galvanometer (Table galvanometer). 10. Potentiometer – Measurement of Internal resistance of ...
11	11	Repetition lab
12	12	Repetition lab
13	13	Formula test
14	14	Model lab I
15	15	Model lab II

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AMALORPAVADOSS A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH509S : ORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	2.1 Conformational analysis of cyclohexane, mono and disubstituted cyclohexanes – Factors affecting stability
2	2	2.2 Optical isomerism, optical activity, optical and specific rotations, conditions for optical activity. Asymmetric center, chirality, achiral molecules,
3	2	(+) and (-) and D and L notations, elements of symmetry, racemization, methods of racemization, methods of resolution, asymmetric synthesis (partial and absolute synthesis), Walden inversion.
4	2	2.3 Projection formula: Fischer, flying wedge, sawhorse and Newmann projection formulae and their interconversions
5	2	notations of optical isomers- Cahn- Ingold-Prelog rules, R and S notations for optical isomers with one or two asymmetric carbon atoms, erythro and threo representations.
6	2	2.4 Optical activity in compounds not containing asymmetric carbon atoms namely biphenyls, allenes,andspiranes.
7	1	1.1 Nomenclature and classification, Preparation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	1.2 Nitrocompounds: aliphatic and aromatic nitro compounds, classification, general properties. 1.3 Reactions: reduction by a chemical and electrolytic method
9	1	1.4 Di- and tri-substitution of aromatic nitro compounds: synthesis of o-, m-, p- dinitrobenzenes and trinitrobenzene.
10	1	1.5 Aromatic Amines. Preparation of primary, secondary and tertiary amines. 1.6 Reactions: basicity of amines, the effect of substituents on basicity of aromatic amines.
11	1	1.7 Diazonium salts: Preparation, diazotization reaction, Sandmeyer, and coupling reactions.
12	5	5.3 Amino acids: Classification and structure of amino acids – Gabriel phthalimide synthesis
13	5	Strecker synthesis – Erlenmeyer synthesis
14	5	Zwitterion, isoelectric point – peptide – Merrifield synthesis – End group analysis
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AMALORPAVADOSS A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH614T : ORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Oxidation with Cr(VI) and Mn(VII) reagents, Oxidation by peracids and DMSO with oxalyl chloride
2	3	Catalytic hydrogenation and dehydrogenation
3	3	Reductions with LAH, NaBH4 and DIBAL. Birch reduction
4	3	Hydroboration of alkenes and alkynes.
5	4	4.1 Electrocyclic reactions – 4 and 6 Pi electron system
6	4	4.2 Cycloaddition reactions – 2 + 2 and 4+2 additions
7	4	4.3 Sigmatropic rearrangements - 1,3; 1,5 and 3,3 sigmatropic rearrangements Claisen and Cope rearrangements

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	4.4 Alkaloids: definition, occurrence, extraction of alkaloids from plants, structural elucidation of coniine, piperine.
9	5	5.1 Preparation , properties and uses of furan, pyrrole, thiophene, pyridine and piperidine.
10	5	Comparative study of basicity of pyrrole, pyridine and piperidine with amines.
11	5	5.2 Six membered rings: synthesis and reactions of quinoline, isoquinoline and indole. Skraup synthesis, Bischler Napieralskii and Fischer Indole synthesis.
12	5	5.3 Terpenoids: Classification, isoprene rule, isolation, general structure of geraniol, citral, menthol, a-pinene and camphor.
13	5	Structural elucidation of menthol.
14	4	Revision
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**ECH617T : MEDICINAL CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Antineoplastic Agents- Introduction
2	3	Cancer chemotherapy– special problems
3	3	The role of alkylating agents and antimetabolites in the treatment of cancer.
4	3	SAR of uracil– mustards– 6-mercaptopurine
5	3	Hormone and natural products.
6	3	Cardiovascular Drugs - Introduction
7	3	Cardiovascular diseases–central intervention of cardiovascular output – Direct acting arteriolar dilators.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Introductions to pharmacokinetics and pharmacodynamics
9	5	.Psychoactive drugs Introduction – neurotransmitters
10	5	CNS depressants– a generalanesthetic– mode of action of hypnotics
11	5	Sedatives– anti-anxiety drugs
12	5	Benzodiazepines– buspirone– neurochemistry of mental diseases.
13	5	Antipsychotic drugs– the neuroleptics– antidepressants– butyrophenones
14	5	Serendipity and drug development
15	5	Stereochemical aspects of psychotropic drugs.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**ECH513 : CHEMISTRY OF INDUSTRIAL PRODUCTS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Saponification of oils and fats .
2	1	Manufacture of soaps
3	1	Formulation of Toilet soaps–Different ingredients used–Their functions–Medicated soaps.
4	1	Herbal soaps–Mechanism of action of soap–Soft soaps–Shaving soaps and creams–ISI
5	1	Examples–Manufacture of ethylene oxide condensate.
6	1	Biodegradation – environmental effects – ISI specifications and limits
7	2	Manufacture of Sodium lauryl sulphate and Sodium Laureth sulphate: Ingredients

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Functions–Different kinds of shampoos
9	2	anti-dandruff–anti-lice–herbal and baby shampoos.
10	5	5.1 Mechanism of lubrication: Classification of lubricants–
11	5	lubricating oils– greases or semi-solid lubricants– solid lubricants and synthetic lubricants.
12	5	Explosives: Classification of explosives,
13	5	primary explosives–high explosive and low explosive. uses
14	5	Blasting fuses–manufacture of important explosives–propellants
15	5	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH615S : INORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chemistry of f-block elements; Occurrence, elements, oxidation states, magnetic properties, color and spectra
2	1	Lanthanide contraction - causes, consequences and uses
3	1	Comparison between 3d and 4f block elements
4	1	Comparative account of lanthanides and actinides.
5	2	Artifical radioactivity-induced radioactivity-uses of radioisotopes
6	2	Hazards of radiation-nuclear fission- nuclear fusion
7	2	Thermonuclear reaction-energy source of the sun and stars.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Nuclear reaction: Types & reactions - cross-section, Q-value, threshold energy, compound nucleus theory, direct reaction;
9	2	Photonuclear reaction - Nuclear reactors: Breeder reactor and Fast breeder reactor -
10	2	Particle accelerators - linear accelerators, cyclotrons, Synchrotrons.
11	5	Organometallic Chemistry - Catalytic processes
12	5	Hydrogenation of olefin (Wilkinson’s catalyst), Hydroformylation of olefins using cobalt catalysts (oxo process)
13	5	Oxidation of olefins to aldehydes (Wacker’s process).
14	5	Polymerization of olefins (Zeigler-Natta catalyst); cyclo oligomerization of acetylene using nickel catalyst (Repee’s catalyst)
15	5	Polymer-bound catalyst-water gas shift reaction

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thermodynamics- introduction, terminologies.
2	1	work, in thermodynamics
3	1	the measurement of work- the measurement of heat
4	1	WORK, HEAT- CALCULATIONS. Internal energy –enthalpy-
5	1	the temperature variation of the enthalpy.Thermo chemistry-physical change-
6	2	the enthalpy of phase transition-atomic and molecular change and calculations
7	5	Introduction-Phase equilibria.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Types in phases and examples
9	5	introduction to phase rule terminologies
10	5	Phase diagrams- examples
11	5	Phase boundaries. examplws
12	5	location of phase boundaries.
13	5	-characteristic points - explanations
14	5	Phase rule- problems
15	5	Phase diagram for typical materials.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH616S : THERMODYNAMICS OF IDEAL AND NON IDEAL SOLUTIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction -Thermodynamics of ideal and non ideal solutions
2	1	The properties of the mixture- thermodynamic description of mixture-measures of concentration –
3	1	Partial molar properties –spontaneous mixing
4	1	Ideal solutions- Ideal –dilute Solutions. Real solutions
5	1	Colligative properties.modification of boiling and freezing points
6	1	Osmosis. Phase diagrams of the mixture
7	1	Phase diagrams of the mixture- a mixture of volatile liquids-liquid – liquid phase diagrams-liquid –solid phase diagrams-ultra purity and controlled impurity.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	The principle of chemical equilibrium.
9	2	Reaction Gibbs energy –a variation of ?G with composition.
10	2	Reactions at equilibrium-standard reaction Gibbs energy.
11	4	Electrochemistry –migration of ions- conductivity-specific conductance.
12	4	Equivalent and molar conductance-ion mobility.
13	4	Transport number and its determination.
14	4	Electrochemical cells-half reactions and electrodes
15	4	Reactions at electrodes. Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH510T : INORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Crystal field theory - Splitting of d-orbitals in octahedral, tetrahedral and square planar complexes
2	3	crystal field stabilization energy - calculation of CFSE in octahedral complexes
3	3	Spectrochemical series - low spin and high spin complexes
4	3	Calculation of CFSE
5	3	Consequences of CFSE
6	3	Drawbacks of CFSE
7	3	Consequences of CFSE on Ionic radii, hydration energy

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Differences between VBT and CFT
9	4	Jahn Teller distortionand it's various cases
10	4	Consequences of Jahn Teller distortion
11	4	Trans effect
12	4	Carbonyls and their nature of the Bonding
13	4	Metallic carbonyls and their structure
14	1	Metallurgy of transition metals
15	1	Extraction of metals such as chromium, tungsten, titanium and vanadium

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH615S : INORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	introduction to nucleus - nuclear force acting between nucleons - N/P ratio
2	1	stability belts - stability curves - packing fraction
3	1	isotopes, isobars, isotones and isomers
4	1	detection and measurement of radioactivity - radioactivity series
5	1	rate of disintegration - half life period - nuclear binding energy
6	1	liquid drop model and shell model
7	3	bioinorganic chemistry - role of metal ions in biology

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	haemoglobin and myoglobin
9	3	haemoglobin and myoglobin , part - 2
10	3	vitamin B12, chlorophyll
11	3	nitrogen fixation and sodium pump
12	4	organometallic chemistry - classification of ligands - 18 electron rule
13	4	metal alkyls - metal alkyledenes - metal alkylidynes
14	4	organometallic reactions - addition, substitution, elimination
15	4	organometallic reaction - ligand protonation - nucleophilic and electrophilic attacks

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH511S : EQUILIBRIUM THERMODYNAMICS OF GASEOUS SYSTEMS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Thermo chemistry -Internal energy –enthalpy
2	2	Enthalpy – Enthalpy a state function – heat of reaction- atomic and molecular change
3	2	physical change-the enthalpy of phase transition. solving problems.
4	2	Chemical change – standard enthalpy changes
5	2	The combination of reaction enthalpies- solving problems
6	2	standard Enthalpies of formation –a variation of reaction enthalpy with temperature. solving problems
7	3	entropy changes for typical processes - solving problems. The direction of spontaneous change – criteria for spontaneity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	CIA EXAM
9	2	Phase Rule - Terms and definition
10	5	Phase equilibria-thermodynamics of transition –condition of stability
11	5	variation of Gibbs energy with pressure- variation of Gibbs energy with temperature.
12	5	Phase diagrams –phase boundaries
13	5	location of phase boundaries-characteristic points Phase rule – phase diagram for typical materials.
14	5	CIA EXAM
15	5	Revision

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**ECH617T : MEDICINAL CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
2	2	Antibiotics inhibiting protein synthesis.
3	2	SAR of penicillin G – penicillin V-ciprofloxin
4	2	SAR of chloramphenicol– tetracycline – streptomycin.
5	1	Development of new drugs– procedures followed in drug design–concepts of prodrugs and soft drugs–structure-activity relationship (SAR).
6	1	Theories of drug activity: Occupancy theory–rate theory– induced fit theory–Quantitative structure activity relationship.
7	1	Concepts of drug receptors: Elementary treatment of drug receptor interactions.
8	2	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
9	4	Introduction on ANTIINFECTIVE DRUGS
10	4	general mode of action
11	4	SAR of sulphonamides
12	4	SAR of nalidixic acid – 13)–
13	4	SAR of amino salicylic acid
14	4	SAR of isoniazid-chloroquin.
15	4	Revision
1	2	Antibiotics Cell wall biosynthesis– inhibitors– ß-lactum rings

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LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	objective of research
2	1	literature survey
3	1	literature survey
4	1	project work
5	1	project work
6	1	project work
7	1	project work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	project work
9	1	project work
10	1	project work
11	1	project work
12	1	project work
13	1	experimental methods and discussion
14	1	writing dissertation for their project work
15	1	Discussion

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTINA B**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH616S : THERMODYNAMICS OF IDEAL AND NON IDEAL SOLUTIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Salts in water- Solved problems
2	3	Concept of pH , Buffer mixture Acid —buffer action- common - ion effect
3	3	Acid base titrations -indictors
4	3	solubility constants – Solved Problems.
5	2	consequences of equilibrium-proton transfer equilibrium – Bronzed-Lowry theory
6	2	protonation and deprotonation- amphiprotic systems.
7	2	The response of equilibria to the conditions- presence of a catalyst – effect of temperature- effect of compression.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Revision
9	5	Electrochemical cells-varieties of cell- the cell reaction
10	5	the cell potential –cells at equilibrium –standard potentials
11	5	The variation of potential with pH-the determination of pH.
12	5	Applications of standard potential
13	5	The electro chemical series
14	5	The determination of thermodynamic functions.
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH509S : ORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Carbonyl polarization – reactivity – acidity of alpha hydrogen- malonic –
2	3	acetoacetic and cyanoacetic esters – characteristic reactions of active methylene group –
3	3	synthetic uses of malonic, aceto acetic and cyano acetic esters.
4	3	.Diazomethane and diazoacetic ester:
5	3	Preparation, structure and synthetic applications. Tautomerism: Definition- keto-enol tautomerism- identification, acid and base catalyzed mechanisms,
6	3	evidences – amido – imidol and nitro- acinitro tautomerisms.
7	1	Aromatic amines. Preparation of primary, secondary and tertiary amines.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Reactions: basicity of amines, effect of substituents on basicity of aromatic amines.
9	1	Diazonium salts: Preparation, diazotization reaction, Sandmeyer, Gatterman, Gomberg, and coupling reactions.
10	4	Classification as anionotropic, cationotropic, free radical, inter and intramolecular rearrangement
11	4	Pinacol-pinacolone rearrangement –mechanism, evidence for carbonium ion intermediate formation – migratory aptitude
12	5	Beckmann, Hoffmann, Carbohydrates : Structural elucidation of glucose and fructose – pyranose and furanose forms – determination of ring size
13	5	Haworth projection formula – epimerization reactions of glucose and fructose
14	5	Osazone formation, mutarotation and its mechanism – chain lengthening and chain shortening of aldoses – inter conversion of aldoses and ketoses.
15	5	Structural elucidation of sucrose and maltose. Structure and properties of starch and cellulose.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**ECH512 : ANALYTICAL TECHNIQUES**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Introduction to instrumental methods of chemical analysis.
2	1	Introduction: Introduction to instrumental methods of chemical analysis.
3	1	Microwave spectroscopy: Introduction–instrumentation–the source and monochromator–sample and sample space–detector–spectrum analyzer–working.
4	1	Microwave spectroscopy: Introduction–instrumentation–the source and monochromator–sample and sample space–detector–spectrum analyzer–working.
5	1	IR-spectroscopy: Introduction – source - monochromators – sample cells & sampling substances – a sampling of solids – detector – bolometers – thermocouples – thermisters – Golay cell – photoconductivity cell – single beam & double bea...
6	1	1.3. IR-spectroscopy: Introduction – source - monochromators – sample cells & sampling substances – a sampling of solids – detector – bolometers – thermocouples – thermisters – Golay cell – photoconductivity cell – single beam & doubl...
7	3	NQR spectroscopy: Introduction – Instrumentation - Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	ESR spectroscopy: Introduction – instrumentation – source – circulator – sample cavity – magnet system – crystal detectors - Revision
9	5	Nephlometry and Turbidimetry: Introduction – instrumentation – sources – detectors – cells – turbidimeters - nephlometers
10	5	Nephlometry and Turbidimetry: Introduction – instrumentation – sources – detectors – cells – turbidimeters - nephlometers
11	5	pH meter: Introduction – instrumentation – potentiometric type – direct reading type
12	5	pH meter: Introduction – instrumentation – potentiometric type – direct reading type
13	5	Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimetry
14	5	Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimetry
15	5	Fluorimetry and Phosphorimetry: Introduction – instrumentation – fluorimeters & spectrofluorimetry - Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CHP507S : ANALYTICAL CHEMISTRY PRACTICAL - I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chromatography: a) Thin-layer chromatography. b) Column chromatography.
2	1	Chromatography: a) Thin-layer chromatography. b) Column chromatography.
3	2	2. Conductometry: Determination of strength of strong acid (HCl Vs NaOH).
4	2	2. Conductometry: Verification of Onsager's equation.
5	2	2. Conductometry: Determination of strength of a mixture of acids (HCl + CH3COOH Vs NaOH).
6	2	2. Conductometry: Verification of Onsager's equation.
7	2	2. Conductometry: Verification of Onsager's equation.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	2. Conductometry: Determination of strength of a mixture of acids (HCl + CH3COOH Vs NaOH).
9	2	2. Conductometry: Determination of strength of a mixture of acids (HCl + CH3COOH Vs NaOH).
10	3	3. Potentiometry: Determination of pKa of a weak acid using std. NaOH solution.
11	3	3. Potentiometry: Determination of pKa of a weak acid using std. NaOH solution.
12	4	4. Colourimetry: Determination of unknown concentration using a photoelectric colourimeter.
13	4	4. Colourimetry: Determination of unknown concentration using a photoelectric colourimeter.
14	5	5. pH meter: Determination of pKa of acetic acid.
15	5	5. pH meter: Determination of pKa of acetic acid.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**IMMANUEL S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**ECH618 : POLYMER CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Importance of polymers. Basic concepts: Monomers–repeating units– degree of polymeriztation–Linear, branched and network polymers.
2	1	1.2. Classification of polymers: Polymerisation – condensation, addition, radical chain-ionic and coordination and co-polymerization.
3	1	Polymerization conditions and polymer reactions. Polymerization in homogeneous and heterogenous systems
4	2	2.1 Morphology and order in crystalline polymers – configurations of polymer chains Crystal structures of polymers.
5	2	2.2 Morphology of crystalline polymers: strain-induced morphology, crystallization and melting–Crystalline melting point Tm. The glass transition temperature, Tg relationship between Tm and Tg.
6	3	Plastics, elastomers and fibers: Compounding–Processing techniques: Calendering–die casting–rotational casting–film casting–injection moulding–
7	3	blow moulding–extrusion moulding–thermoforming–foaming–reinforcing and fibre spinning.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	4.1 Polydispersion: Average molecular weight concept–Number, weight and viscosity average molecular weights
9	4	Polydispersity and molecular weight distribution – The practical significance of molecular weight
10	4	4.2 Analysis and testing of polymers: Chemical analysis of polymers– spectroscopic methods
11	4	X-ray diffraction study–Thermal analysis and physical testing – tensile strength–Fatigue, impact–Tear resistance–Hardness and abrasion resistance.
12	5	5.1 Polyethylene, Polyvinyl chloride, polyamides, phenolic resins,
13	5	epoxy resins and silicone polymers.
14	5	5.2 Functional polymers – fire retarding polymers and electrically conducting polymers
15	5	Biomedical polymers – contact lens, dental polymers, artificial heart, kidney, skin and blood cells.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning of research – objective of research motivation of research – approaches and significance
2	1	How to select the good research topic by using google
3	2	review of literature by using Keywords
4	2	Project work
5	2	Project work
6	3	Project work
7	3	Project work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Project work
9	3	Project work
10	3	Project work
11	3	Project work
12	4	Project work
13	4	How to write the thesis
14	5	Thesis Corrections
15	5	Project work

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**CH614T : ORGANIC CHEMISTRY - IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UV-Visible - Absorption Laws-Selection Rules
2	1	UV-Visible- Types of Electronic transitions
3	1	UV-Visible- chromophore-Auxochrome-Absorption bands and Intensity
4	1	Woodward-Fieser rules for calculating ?max in Dienes compounds.
5	1	Woodward-Fieser rules for calculating ?max in a,ß-unsaturated carbonyl compounds.
6	1	Infra red spectroscopy – Vibrational frequencies of important functional groups.
7	1	Infra red spectroscopy – finger print region- selection rules

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	The effect of intermolecular and intramolecular hydrogen bonding in IR
9	1	Problems based on IR and UV spectra. Problems using Woodward – fieser rules.
10	2	NMR Spectroscopy: Basic Principles of nuclear magnetic resonance- chemical shift - shielding and deshielding of protons
11	2	NMR Spectroscopy: spin–spin splitting of neighbouring protons. Coupling constants and their application
12	2	Applications of 1H NMR in the structural determination of simple organic compounds.
13	2	Mass spectroscopy: Basic principles of mass spectrum- molecular ion peak, base peak, isotopic peak, determination of molecular formula.
14	2	Fragmentation patterns in hydrocarbons, alcohols, aldehydes, ketones, acids, halobenzenes.
15	2	Simple Combined problems using UV, IR, NMR, Mass spectra

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LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Intro about project
2	1	How to search journals
3	1	How to write introduction
4	1	How to write thesis
5	1	How to calculate impact factor
6	1	Explain about separation techniques like TLC and various separation techniques
7	1	Project work

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Project work
9	1	Project work
10	1	Project work
11	1	Project work
12	1	Project work
13	1	Thesis correction
14	1	Thesis correction
15	1	Model viva

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**CH510T : INORGANIC CHEMISTRY - III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chemistry of d-block elements - Characteristics of d-block elements
2	1	occurrence - oxidation states, magnetic properties and color of d-block elements
3	1	comparative study of Ti, V, Cr, Mn & Fe group.
4	3	Werner's theory - Sidgwick's theory
5	3	EAN rule, - Valence bond theory – hybridization
6	3	geometry and magnetic properties - failure of VBT.
7	3	Crystal field theory - Splitting of d-orbitals in octahedral, tetrahedral and square planar complexes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	crystal field stabilization energy - calculation of CFSE in octahedral complexes
9	3	Spectrochemical series - low spin and high spin complexes - explanation of magnetic properties and color of complexes using CFT
10	5	X-Ray diffraction – Bragg's equation
11	5	principle of X-ray diffraction - comparison of X-ray, electron and neutron diffraction
12	5	Radius ratio and coordination number of Crystal structure
13	5	NaCl, Rutile, Wurtzite, Zincblende and CaF2
14	5	Crystal defects – Schottky , Frenkel, Metal excess and Metal deficiency defects
15	5	. Metallic bond, Metallic properties, Band theory of metals, semiconductors - n and p type semiconductors - Superconductors.

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**6**
Subject	**JCH601 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Introduction about research methodology
2	1	How to choose the particular area of research based on current problems
3	1	Explanation about thesis writing
4	1	Literature survey
5	1	Aim and scope of the particular research work
6	1	Introduction
7	1	7. Scheme preparation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Materials and methods
9	1	Synthesis of some Inorganic and organic compounds
10	1	Spectral analysis
11	1	Spectral analysis
12	1	12. Results and discussion 13. Summary writting 14. Reference 15. Thesis correction
13	1	Summary writing
14	1	Reference
15	1	Thesis correction

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**5**
Subject	**ECH513 : CHEMISTRY OF INDUSTRIAL PRODUCTS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Shampoo- preparations
2	2	anti dandruff shampoo and its evaluation
3	1	Saponification of oils and fats – Manufacture of soaps – Formulation of Toilet soaps–Different ingredients used–Their functions–Medicated soaps.
4	1	Herbal soaps–Mechanism of action of soap–Soft soaps–Shaving soaps and creams–ISI specifications
5	1	Cationic detergents: Examples– Manufacture and applications. Non-ionic detergents: Examples–Manufacture of ethylene oxide condensater.
6	1	Mechanism of action of detergents: Comparison of soaps and detergents– Biodegradation
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	4.1 Introduction: Manufacture of leather–Preparation of hides for tanning– Vegetable–chrome and oil tanning–
9	4	Tannery effluents–pollution control.
10	4	Introduction– manufacture of cane sugar– recovery of sugar from molasse.
11	4	manufacture of sucrose from beet root–testing and estimation of sugar.
12	4	Classification and examples for insecticides, fungicides and herbicides –fluorine compounds.
13	4	Boron compounds, arsenic compounds, mercuric compounds, pyridine compounds.
14	4	Effects of use of chemical fertilizers and insecticides.
15	4	Revision

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LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Programs on C++
2	1	Simple Programs Based on Datatypes in C++
3	1	Develop a Simple C++ Programs based on Mathematical Formulas
4	2	Simple Programs Based on operators & Control Statements
5	2	Programs Based on Arrays
6	2	Crete Simple programs based on Various Functions
7	3	Create a Programs based on Constructor in C++

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Programs based on Destructors in C++
9	3	Programs Based on Operator Overloading & Virtual Functions
10	4	Programs Based on Implementing the Concept of single Inheritance in C++ Programs Based on Implementing the Concept of Multiple Inheritance in C++
11	4	Programs Based on Implementing the Concept of Multilevel Inheritance in C++ Programs Based on Implementing the Concept of Hierarchical Inheritance in C++
12	4	Programs Based on Implementing the Concept of Hybrid Inheritance in C++
13	5	Implement PUSH, POP operations of stack using Arrays.
14	5	Implement add, delete operations of a queue using arrays. Conversion of infix to postfix using stacks operations.
15	5	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

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LESSON PLAN

Name of the Staff	**HENSON T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	MATRICES, RANK OF MATRIX
2	3	RANK OF MATRIX
3	3	TEST FOR CONSISTENCY
4	3	EIGEN ROOTS AND EIGEN VECTORS
5	3	EIGEN ROOTS AND EIGEN VECTORS
6	3	CAYLEY -HAMILTON THEOREM VERIFICATION AND INVERSE
7	3	CAYLEY -HAMILTON THEOREM VERIFICATION AND INVERSE

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	nTH DERIVATIVE
9	5	nTH DERIVATIVE
10	5	nTH DERIVATIVE
11	5	nTH DERIVATIVE
12	5	LEIBINITZ'S THEOREM
13	5	LEIBINITZ'S THEOREM
14	5	LEIBINITZ'S THEOREM
15	5	JACOBIAN'S

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASIC PROGRAMS
2	1	LOGICAL PROGRAMS
3	1	PROGRAMS WITH ARRAYS,MATRIX WITH FOR LOOP
4	2	PROGRAMS WITH FORMULAE
5	2	GENERAL PROGRAMS
6	3	GENERAL PROGRAMS
7	3	GENERAL PROGRAMS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GENERAL PROGRAMS
9	3	MATRIX PROGRAMS
10	3	MATRIX MULTIPLICATION PROGRAMS
11	4	Matrix Transpose
12	4	Recursion with examples
13	4	File handing
14	5	Implementing looping and control statements
15	5	Revision of the programs

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Therumular azvar
2	1	Naukaraser manigavasakar
3	1	Andal pattenathar
4	4	Sambanthar suntharar
5	5	Mozhitheren
6	5	Mozhipayarpu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Thurogasuvadu
9	3	Thurogasuvadu
10	3	Thurogasuvadu
11	4	Setreelakkiyam
12	4	Esulam thamil
13	2	Masthan sakeppu kumaraguruparar
14	2	Kalengathu parani nanthikalambagam
15	2	Mukkudal pallu

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Barathiyer
2	1	Barathidhasen
3	11	Kavimani aseyajothi
4	3	Erupatham nutrendu kavinker
5	3	Serukathen thotamum varchiyum
6	4	Kathavo
7	4	Kudumpathel oru naper

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Vallutu megum edam mega edam
9	2	Athul raguman kavithai
10	2	M matha vairamuthu
11	2	Natupora padelgal
12	3	Potukavithen thotamum varchiyum
13	3	Natupora elakiyum
14	4	Jayel mennal
15	4	Ezutha marentha kathai

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS101B : PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basics of C C fundamentals Character set Identifier
2	1	Keywords Data types Constants Operators
3	1	Variables Expressions Statements Library functions
4	2	Data input output functions Simple C programs Flow of control – if, if- else, while, do-while,
5	2	for loop nested control structures
6	2	switch, break and continue, go to statements.
7	3	Function and Storage classes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Introduction to Functions Definition of functions Function Prototype
9	3	Passing arguments in the function Recursive function Storage classes
10	4	Arrays, Structures and Unions: Arrays Defining an array Array Processing
11	4	Passing arrays to functions Arrays and string
12	4	Structures and Union
13	5	Pointers and Files Declarations of pointers
14	5	Passing pointers to function Operation on Pointers Pointer and Arrays
15	5	Files and operation on files. Revision of previous year question papers

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic C programs Arithmetic Operation
2	1	Swapping Two numbers Finding Odd or Even
3	1	C programs using Control structure(if else)
4	1	Summation of series
5	1	String Manipulation.
6	1	Sorting Bubble Sort
7	1	Sorting Selection Sort

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Sorting Insertion Sort
9	1	Searching Linear Search
10	1	Searching Binary Search
11	1	Matrix Manipulations Matrix Addition
12	1	Matrix Manipulations Matrix Subtraction
13	1	Matrix Manipulations Matrix Multiplication
14	1	Recursion
15	1	File Handling - Mark sheet. Revision of all programs

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Data structure Definition of a Data structure
2	1	Primitive and Composite Data types,
3	1	Arrays, Operations on Arrays - Order Lists.
4	2	Stacks and Queues: Stacks Operation
5	2	Application of Stack Infix to Postfix Conversion -
6	2	Queues Operations on Queues, Queue Applications - Circular Queue.
7	3	Linked List: Singly Linked List Representation of a Polynomial

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polynomial addition
9	3	Doubly Linked List.
10	4	Trees: Binary trees Representation
11	4	Conversion of Forest to Binary tree
12	4	Tree Traversals.
13	5	Graphs: Definition Graph Representation
14	5	Types of Graphs
15	5	Shortest Path (Dijikistras Algorithm).

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LESSON PLAN

Name of the Staff	**Dr. E. Ruby Violet Rani**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**VE101T : VALUE EDUCATION**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valurs
2	1	Source
3	1	Erosion of value
4	2	Learning
5	2	Theories
6	2	Continued
7	3	Memory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stages of memory
9	3	Modelling
10	4	Emotions
11	4	Theories
12	4	Pleasant emotions
13	5	Intelligence
14	5	Determinants
15	5	Revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic programming in c
2	1	Basic programs based on concepts
3	1	arithmetic operations in c
4	2	Lab programs
5	2	Series program
6	2	syllabus programs
7	3	linear search,binary serarch

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Matrix programs
9	3	syllabus code
10	4	Lab programs
11	4	File programs
12	4	file handling ,marksheet processing
13	5	Lab programs
14	5	Model practical
15	5	program revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic codes on oops
2	1	Implementing class and Objects.
3	1	Implementing Inline function
4	2	Implementing Friend function.
5	2	Implementing Constructor and Destructor
6	2	Implementing Operator overloading
7	3	Implementing Inheritance.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implement PUSH, POP operations of stack using Arrays.
9	3	Implement add, delete operations of a queue using arrays.
10	4	Conversion of infix to postfix using stacks operations.
11	4	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.
12	4	model practical -1
13	5	model practical -2
14	5	model practical -3
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKTHIILLKIYAM 1.1. THIRUMOOLAR - THIRUMANTHIRAM 1.2. THONDARADI PODIYAZHVAAR - THIRUMALAI
2	1	1.3. THIRUNAVUKKARASAR - THEVARAM 1.4. MANIKKKAVASAR - THIRUVASAGAM
3	1	1.5. AANDAAL - THIRUPPAVAI 1.6. PATTINATHTHAAR - PULAMPAL
4	4	ILLAKIYAVARALAARU 4.1. SAMPANTHAR, SUNTHARAR 4.2. AAZHVAARGAL 9 MUTHAL AAZHVAAR MOOVAR MATTUM)
5	5	MOZHITHIRAN 5.`1. THAM IZHIL PIRA THURAIGAL 5...1. ARIVIAYL 5.1.2. AATCHITHURAI 5.1.3. KANINI 5.1.4. PUZHANGUPORUTGAL
6	5	5.2. MOZHIPEYARPPU PAGUTHI 5.2.1. KADITHANGAL 5.2.2. INIYA ELIYA TAMIL MOZHI PEYARPPU
7	4	4.5. VURAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THUROGA SUVADUGAL - IRAIYANBU 1. ECHARIKGAI EPPOTHUM 2.NEEUMA PURUTTAS 3. NANTRI MARAPPAVAR PALAR 4. SEEDANAAI ORU MOODAN
9	3	5.VELI MEINTHA VAYALGAL 6. VALARTHA KADA 7. AMUKKAPADUM ANGIGARAM 8. VUTHTHAMANILLAI VUTHTHAMASOZHAN
10	3	9. PILACI UTHTHAM 10. VUDAN PIRAPPUM VULAI VAIGALAM 11. PUTHTHAR KAKATHTHILEYE 12.THUROGAM ENUM THODARKATHAI 13. ERUTHIYAGA
11	4	4.3. SIRILAKIYANGAL (THOOTHU, VULAA, KURAVANCHI, ANTHATHI)
12	4	4.4. ISLAMUM THAMIZHUM
13	2	2.1. MASTHAAN SAGIPU - PARAPARAKKANNI 2.2. KUMARAKURUPARAR - PILLAITHAMIZ
14	2	2.3. KALINGATHU BARANI - PORKALAM 2.4. NANTHIKALAMPAGAM - NANTHIVARMAN
15	2	2.5. MUKGOODARPALLU - PALLARGALIN VALAM

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Vallalar - Thiruvarutpaa 1.2. Barathiyar - Barathadesam
2	1	1.3. Barathidasan - Ulagam unnudaiyathu 1.4. Kavimani - Aaciyajothi
3	1	1.5. Kannadasan - Utharimainthan
4	3	3.1. Irupadam Nootrandu kavinjargal
5	3	3.3. Sirukathain thottramum valarchium
6	4	4.1. kathavu
7	4	4.2. Kudumpaththil Oru Nabar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1. Vallottru migum edangal 5.2. Vallottru miga edangal
9	2	2.1. Abdul raguman - Aalaabanai 2.3. Vairamuththu - Suyakolli
10	2	2.2. Mu.Meththaa - Thesapidavukgu theru padaganin anjali
11	2	2.4. Thamizhchi - Enjottupen 2.5. Nattupurapadalgal
12	3	3.2. Puthukavithaien Thottramum valarchium
13	3	3.4. Nattupura Illakiyangal
14	4	4.3. Jeyil - Sirukathai
15	4	4.4. Minnal 4.5. Ezhuthamarantha kathai

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS102S : DIGITAL LOGIC FUNDAMENTALS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Digital Computers and Digital Systems -Binary Number System -Binary Addition
2	1	Binary Subtraction- Binary Multiplication and Division- Number
3	1	Base Conversion: decimal, binary, octal, hexadecimal
4	2	Basic Definitions of Boolean algebra ,Universal gates
5	2	Basic Theorems and Properties of Boolean Algebra ,DeMorgan's Theorem
6	2	Digital Logic Gates: AND, OR, NOT, NAND, NOR, Exclusive OR and Exclusive NOR Gates-
7	3	Sum of Products and Product of Sums

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Karnaugh Maps - Two and Three Variable Maps - Four Variable Maps
9	3	Don't Care Conditions - Rolling the Map – Eliminating Redundant Groups.
10	4	Adders: Half Adder,Full Adder
11	4	Subtractors: Half Subtractor,Full subtractor
12	4	Binary Adder-BCD Adder,Encoder - Decoders – Multiplexers – Demultiplexers.
13	5	Flip Flops – RS Flip Flop – Clocked
14	5	RS Flip Flop – D Flip Flop – JK Flip Flop
15	5	T Flip Flop – Master Slave Flip Flop - Counters: Asynchronous and synchronous Counter

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS203S : PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	OOP'S: Principles of Object Oriented Programming [OOP]: Evolution of C++
2	1	Programming paradigms – Key concept of OOP
3	1	Advantages of OOP- Usage of OOP and C++ - Input and Output in C++ - Streams.
4	2	C++ Fundamentals and Functions: Stream classes-Unformatted console I/O Operations – Introduction to C++ - Tokens, Keywords, Identifiers, Variables, Operators, Expressions and Control structures in C++
5	2	pointers and arrays –Function in C++ - Main function– function prototyping
6	2	Parameters passing in Functions – Values Return by functions – Inline Functions –Function overloading.
7	3	Object Manipulation and Polymorphism: Classes and objects; Constructors and Destructors;

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Operator Overloading and type Conversion
9	3	Friend and Virtual functions.
10	4	Inheritance: Single Inheritance – Multilevel inheritance – Multiple inheritances
11	4	Hierarchical – Hybrid Inheritance - Virtual Base class
12	4	Virtual Functions and Polymorphism
13	5	Working with Files: Classes for File Stream Operation – Opening and Closing a File
14	5	End –of – File Detection – File Pointers-Updating a File
15	5	Error Handling during File Operation – Command-line Arguments.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple program in c++
2	1	Implementing class and Objects.
3	1	student information using class and object
4	2	Implementing Inline function
5	2	Implementing Friend function.
6	2	Implementing Constructor
7	3	parameter ,copy default Constructor

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing Destructor
9	3	Implementing Operator overloading
10	4	Implementing Inheritance.
11	4	single ,multiple Inheritance.
12	4	multilevel hybrid Inheritance.
13	5	Implement PUSH, POP operations of stack using Arrays.
14	5	Implement add, delete operations of a queue using arrays.
15	5	Conversion of infix to postfix using stacks operations. Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore Elocution
12	5	Description Narration
13	5	Paragraph Writing
14	0	II CIA
15	0	FULL REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I GROUP ACTIVITY 1. Spell bee 3. Quiz game
2	1	UNIT – I GROUP ACTIVITY 2. Story telling
3	2	Unit-II TALK TOGETHER 1.Seminar 2. Debate
4	2	Unit-II TALK TOGETHER 3. Group Discussion
5	3	Reviewing Skills 1. Book Review
6	3	2. Film Review
7	3	I C.I.A

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Public Speaking Speech on current Events Welcome Addresses
9	4	Public Speaking Vote of thanks report writing
10	5	Unit V 1. Narrating Dreams
11	5	Unit V 2. Narrating Ambition Syllabus Completed
12	5	Students Talk
13	5	II CIA
14	5	Students Presentation
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thrumullar, Thoderadipodi azhvar
2	1	Thrunavukarasar, Manickavasakar
3	1	Andal Patinathar
4	4	Azhvarkal
5	5	Puzhagu porul
6	5	Mozhipayarupu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Throgasuvadugal
9	3	Throgasuvadugal
10	3	Throgasuvadugal
11	4	Sitruelackeyam
12	4	Eslamum tamilum
13	2	Kumarakurbarar
14	2	Nanthi kalabagam
15	2	Muckudar pallu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Parathadesam , Vallarar
2	1	Asasiyajothi , Kannadasan
3	1	Parathithasan - ulagam unnudaiyathu
4	3	Erupatham nurtrandu kavinargal
5	3	Sirukathaen thortramum valarchium
6	4	Sirugathaigal - jail
7	5	Elakkanam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	abdulrahuman
9	2	m. matha
10	2	vairamuthu
11	2	thamilachi
12	2	natupurapadel
13	3	puthukavithai, jail
14	3	natupura ilakiyam, minnal
15	4	kathavu - elutha mareantha kathai

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AMCS22 : ALLIED MATHEMATICS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Two Person Zero Sum Game-Basic Terms-Maximum Principal
2	1	Games Without Saddle points
3	1	Mixed Strategies
4	1	Graphical Solution of 2Xn
5	1	Dominance Property
6	2	Definition of Assignment Model
7	2	Formulation and Solution of Assignment Model

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Formulation and Solution of Assignment Model
9	2	Special Cases in Assignment Model
10	2	Special Cases in Assignment Model
11	3	Laplace Transform of Standard functions
12	3	Laplace Transform Properties
13	3	Laplace Transform Properties
14	3	Inverse Laplace Transform
15	3	Inverse Laplace Transform

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple C program using general structure of C
2	1	C programs with variable declaration,statements,operators
3	2	C programs with I/O functions
4	2	C programs using branching statements
5	2	C programs using loop structures
6	2	C programs using functions
7	3	C programs using one-dimensional Arrays

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	C programs using two dimensional arrays
9	4	Functions
10	4	Functions
11	4	Recursion
12	5	String Functions
13	5	Sorting and Searching
14	5	Files
15	5	Pointers

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular Thondaradipodialwar Thirunavukkarasar
2	1	Manikkavasahar Andal
3	1	Pattinathar Marsha sahib
4	4	Sambanther ,. Suntharar Alwargal
5	5	Kala chorkal
6	5	Kadithangal Molipeyarpu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Dhuroha suvaduhal
9	3	Dhuroha suvaduhal
10	3	Dhuroha suvaduhal
11	4	Sitrilakkiyangal
12	4	Islamic thamilum
13	2	Kumara kurubarer Kalingathu barani
14	2	Many hi kalambagam
15	2	Mukkooder pallu

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Data structure Definition of a Data structure
2	1	Primitive and Composite Data types,
3	1	Arrays, Operations on Arrays - Order Lists.
4	2	Stacks and Queues: Stacks Operation
5	2	Application of Stack Infix to Postfix Conversion -
6	2	Queues Operations on Queues, Queue Applications - Circular Queue.
7	3	Linked List: Singly Linked List Representation of a Polynomial

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polynomial addition
9	3	Doubly Linked List.
10	4	Trees: Binary trees Representation
11	4	Conversion of Forest to Binary tree
12	4	Tree Traversals.
13	5	Graphs: Definition Graph Representation
14	5	Types of Graphs
15	5	Shortest Path (Dijikistras Algorithm).

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introducing oneself
2	2	Tenses
3	3	Tenses Usage
4	4	Role play
5	5	Small Utterances
6	2	Framing questions
7	3	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reading skill
9	3	Speaking skill
10	4	Writing skill
11	5	Grammar
12	3	Listening skill test
13	4	Speaking skill test
14	5	Writing skill test
15	5	Grammar test

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS102S : DIGITAL LOGIC FUNDAMENTALS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Binary Systems Basics of computers types of computers Digital Computers and Digital Systems
2	1	Number Base Conversion decimal binary octal hexadecimal
3	1	Binary Number System Binary Addition Binary Subtraction Binary Multiplication Binary Division unit revision
4	2	Boolean Algebra -Theorems -Properties of Boolean Algebra -Basic notations
5	2	Logic Gates -Basic Gates -Universal Gates
6	2	Bubbled gates -Exclusive gates -DeMorgans theorem unit revision
7	3	sum of products -products of sum -Simplification -conversions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	K-Map -2-var K-Map -3-var K-Map -4-var K-Map
9	3	Don't care conditons -Eliminating redundant groups -rolling the map unit revision
10	4	Adders-Half adder-Full Adder Subtractor- Half subtractor-Full Subtractor Binary Adder
11	4	Parallel adder -BCD adder -Encoder
12	4	Decoder -Multiplexer -DeMultiplexer unit revision
13	5	flipflops RS Flipflop -clocked RS Flipflop -D Flipflop
14	5	- J K Flipflop -T Flipflop master slave Flipflop
15	5	Counters -Synchronous counter -Asynchronous counter unit revision

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LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Program in C++
2	1	Implementing class and Objects.
3	1	Implementing Inline function
4	2	Implementing Friend function
5	2	Implementing Constructor
6	2	Parameter , Copy, Default Constructor
7	3	Implementing Destructor

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing Operator overloading
9	3	Implementing Inheritance
10	4	Single, Multiple Inheritance
11	4	Multilevel, Hybrid Inheritance
12	4	Student Infromation
13	5	Implement PUSH, POP operations of stack using Arrays.
14	5	Implement add, delete operations of a queue using arrays.
15	5	Conversion of infix to postfix using stacks operations. Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALLALAAR,BHARATHI-BHARATHI THESAM
2	1	BHARATHI THASAN-ULAGAM UNNUDAIYATHU,KAVI MANI-AASIYA JOTHI
3	1	KANNATHAASAN-YESU KAAVIYAM
4	3	IRUPATHAM NOOTRAANDU KAVIZNJARGAL
5	3	SIRU KATHAIYIN THOTRAM VALARCHI
6	4	KATHAVU
7	4	KUDUMBATHIL ORU NABAR

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	VALLOTRU MIGUM MIGA IDANGAL
9	2	ABDHUL RAHUMAAN - AALAABANAI, VAIRAMUTHTHU - SUYA KOLLI
10	2	MU. METHTHAA - THESAPITHAVUKU THERU PAADAGANIN ANJALI
11	2	THAMIZHACHCHI - ENJOTTUP PENN, NATTUPURA PAADALGAL
12	3	PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM
13	3	NAATTUPPURA ILAKKIYANGAL
14	4	JAYIL - SIRUKATHAI
15	4	MINNAL, EZHUTHA MARANTHA KATHAI

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AMCS22 : ALLIED MATHEMATICS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Assignment problems Algorithm
2	2	Total minimum cost Unbalanced assignment problems
3	2	Unbalanced assignment problems Maximisation problems
4	2	Maximisation problems Restricted assignment problems
5	2	Restricted assignment problems Example problems
6	2	Important sums Examples
7	5	Finite difference

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Operators and their relationship
9	5	Forward difference Backward difference
10	5	Newton's forward formula
11	5	Newton's forward interpolation formula
12	5	Newton's backward formula
13	5	Newton's backward interpolation formula
14	5	Lagrange's formula
15	5	Lagrange's interpolation formula

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Polynomial Equations with real Coefficients
2	1	Irrational roots – Complex roots , symmetric roots
3	1	Transformation of equation by increasing or decreasing roots by a constant – Reciprocal equations
4	1	Symmetric functions of roots.
5	2	Transformation of equation by increasing or decreasing roots by a constant
6	2	Transformation of equation by increasing or decreasing roots by a constant
7	2	Reciprocal equations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Newton's method to find a root approximately (without proof
9	4	Expansions of sin n ?
10	4	Expansions of sin n ?, cos n ?
11	4	sinn ?,cosn?, tann? – Expansions of sin ?, cos ?, tan ? in terms of ?
12	5	n-th derivatives
13	5	Leibnitz theorem [without proof] and its applications
14	5	Jacobians – Concepts of polar co-ordinates
15	5	Curvature and radius curvature in Cartesian co-ordinates

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LESSON PLAN

Name of the Staff	**GNANA SOUNDARI K**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making Requests and Responding to Requests Thanking someone and Responding to thanks
2	1	Prose: How to be a Doctor Precis writing Non finite verbs Strong and weak verbs
3	2	The Auxiliaries Strong and weak forms in transcription Inviting, accepting and Refusing Invitation
4	2	Apologising and Responding to apology Poem: Auguries of Innocence
5	2	Note Making Use of wrong prepositions Unnecessary use of Articles
6	3	Relationship between spelling and sound Paying compliments showing appreciation offering Encouragement and Responding to them Asking for Giving and Refusing permission
7	3	Proes: My Vision for India Report writing Punctuation and Capitals

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA EXAMS
9	4	Sentence transcription Describing daily Routine Poem : IF
10	4	One act play- The Merchant of venice- Trail for a pound of flesh Paragraph writing
11	4	Personal details Transcribing Short passages
12	5	Asking for Directions and Giving Directions Biography: Kiran Bedi
13	5	Use of wrong Tenses Use of prefixes and suffixes
14	0	II CIA EXAMS
15	0	Revisions

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANJAL MOSE S Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Rank of a matrix
2	3	Consistency of equations
3	3	Eigen roots and Eigen vectors ,
4	3	Cayley – Hamilton's theorem
5	3	Cayley – Hamilton's theorem problems
6	3	Verification and computation of inverse matrix
7	3	Verification and computation of inverse matrix

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reciprocal equations
9	2	Reciprocal equations
10	2	Reciprocal equations
11	4	Newton’s method to find a root approximately
12	4	Newton’s method to find a root approximately
13	4	Newton’s method to find a root approximately
14	4	Newton’s method to find a root approximately
15	4	Newton’s method to find a root approximately

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS101B : PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	C fundamentals Character set -dentifier and keywords – data types – constants-
2	1	Identifier and keywords – data types – constants-Variables – Declarations – Expressions – Statements – operators -Library functions.
3	1	operators -Library functions-Library functions
4	2	Data input output functions ,Simple C programs
5	2	Flow of control – if, if- else, while, do-while, for loop, nested control structures
6	2	switch, break and continue, go to statements.
7	3	Function – Definition

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Prototypes
9	3	Passing arguments – Recursion - Storage classes.
10	4	Arrays – Defining and Processing
11	4	Passing arrays to functions
12	4	Arrays and string - Structures and Unions
13	5	Pointers – Declarations
14	5	Passing pointers to function Operation on Pointers – Pointer and Arrays
15	5	Files and operation on files.

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASIC PROGRAMMERS
2	1	LOGICAL PROGRAM
3	1	iImplementing Loop structures
4	2	Summation of series
5	2	palindrome program ,pascal program
6	2	gcd recursion program ,
7	3	sin x program cos x program

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	bubble short
9	3	pascal program
10	4	String Manipulation
11	4	Selection Sort
12	4	Insertion Sort
13	5	Searching
14	5	Linear Search, Binary Search
15	5	Matrix Manipulations, File Handling - Mark sheet

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS203S : PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	OOP'S: Principles of Object Oriented Programming [OOP]: Evolution of C++
2	1	Programming paradigms – Key concept of OOP
3	1	Advantages of OOP- Usage of OOP and C++ - Input and Output in C++ - Streams.
4	2	C++ Fundamentals and Functions: Stream classes-Unformatted console I/O Operations – Introduction to C++ - Tokens, Keywords, Identifiers, Variables, Operators, Expressions and Control structures in C++
5	2	pointers and arrays –Function in C++ - Main function– function prototyping
6	2	Parameters passing in Functions – Values Return by functions – Inline Functions –Function overloading.
7	3	Object Manipulation and Polymorphism: Classes and objects; Constructors and Destructors;

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Operator Overloading and type Conversion
9	3	Friend and Virtual functions.
10	4	Inheritance: Single Inheritance – Multilevel inheritance – Multiple inheritances
11	4	Hierarchical – Hybrid Inheritance - Virtual Base class
12	4	Virtual Functions and Polymorphism
13	5	Working with Files: Classes for File Stream Operation – Opening and Closing a File
14	5	End –of – File Detection – File Pointers-Updating a File
15	5	Error Handling during File Operation – Command-line Arguments.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple program in c++
2	1	Implementing class and Objects.
3	1	student information using class and object
4	2	Implementing Inline function
5	2	Implementing Friend function.
6	2	Implementing Constructor
7	3	parameter ,copy default Constructor

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing Destructor
9	3	Implementing Operator overloading
10	4	Implementing Inheritance.
11	4	single ,multiple Inheritance.
12	4	multilevel hybrid Inheritance.
13	5	Implement PUSH, POP operations of stack using Arrays.
14	5	Implement add, delete operations of a queue using arrays.
15	5	Conversion of infix to postfix using stacks operations. Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

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LESSON PLAN

Name of the Staff	**ASHOK KUMAR K Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling
3	1	Quiz game
4	2	Seminar
5	2	Debate
6	2	Group Discussion
7	3	Book Review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Film Review
9	4	Speech on current events
10	4	Welcome Address
11	4	Vote of Thanks
12	4	Report Writing
13	5	Narrating Dreams
14	5	Narrating Ambition
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English Speech Sounds-Consonants Meeting People, Exchanging Greetings & Taking Leave Introduction People to Others
2	1	Prose: Forgetting- Robert Lynd Letter writing- informal letters The sentence Parts of speech
3	2	Speech sounds- pure vowels Giving personal information Talking about people Poem: Mending wall Letter writing- formal letters
4	2	Nouns- classes and Gender Nouns- Numbers and case Adjectives Comparison of adjectives
5	3	Pronouns- Demonstrative, indefinite, interrogative Pronouns- relative Poem: time and love - William Shakespeare
6	3	Dipthongs Taking and leaving messages Making enquiries on the phone Dailogue writing Articles Pronouns- personal, reflexive and Emphatic
7	3	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	1 CIA Examination
9	4	Phonetic transcription (words) Answering the telephone and asking for someone Reading comprehension
10	5	Short story: The Selfish Gaint- Oscar Wilde Dealing with wrong number
11	4	Voiced and voiceless Mother Teresa- John Frazer
12	4	The best laid plans- Farrell Mitchell Verbs- transitive and intransitive Verbs-Active and passive voice
13	5	Verbs- Mood and tense Concord or agreement of the verb with the subject
14	5	Revision
15	5	II CIA Examination

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation,
2	1	mining, dams – water resources: over – utilization, floods, drought – mineral resources: exdploitation, extraction and usage –
3	1	food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conservi...
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types,
6	2	characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India –
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act –
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**Dr.JAYAPAL J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important-
2	1	Types of Group Discussion-techniques in Group Discussion-
3	1	Tips for Group Discussion.
4	2	Interview Preparation- Common Interview Questions - Questions to Ask Your Employer-
5	2	What Employers Want- Attitude & Effort - Body Language – Types of Interview: The Mock Interview- Phone Interviews-
6	2	Behavioural Interviews- Closing the Interview-Thank You Notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Time and Distance -Heights and Distances Data Interpretation: Tabulation
9	3	Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning (1): Analogies –
11	4	Arrangement-Causes and Effects
12	4	-Family Tree-Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series
14	5	Code based questions on letters of alphabet
15	5	Syllogism-Statement and Conclusion.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CS407Q : INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction-Internal Concepts: Internet Services – Types of accounts - Media for internet
2	1	ISP – TCP/IP and Connection software – Dial-up Networking – setting up and Internet Connection
3	1	Testing connection – Disconnecting from the Internet . Unit revision
4	2	Contenders: Issues in high-speed Connection -Connecting via ISDN,
5	2	Connecting via ASDN and cable Modem – Intranets – Components of an Intranet
6	2	steps for creating Intranet – Maintenance – Connecting LAN to Internet . Unit revision
7	3	E-mails: Downloading E-Mails – Signatures and Stationery – Web based E-Mail – E-mail task

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Outlook Express – Sending and Receiving Files using Eudora – Outlook Express and Pine – Multiple e-Mail Accounts
9	3	Sending form Letters – Formatting E-mail – E-mail mailing List. Unit revision
10	4	Internet Basics: Introduction to HTML – List
11	4	Creating Table – Linking Document Frames
12	4	Forms -code using forms-– Graphics to HTML Doc. Unit revision
13	5	Java Script:Introduction – Advantage of JAVA Script - JAVA Script Syntax
14	5	Data type – Variable – Array – Operator and Expressions
15	5	Looping Constructor – Function – Dialog Box. Unit revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic codes in Html
2	1	Design a simple web page in html using formatting tags to display your address at the center of the screen.
3	1	Display you're like things and dislike things using Html list.
4	2	Display an image in html with comments.
5	2	Design a web page using anchor tag to display about the important persons in India.
6	2	Use html Frames to divide the screen and load few web pages in a screen.
7	3	Use html Forms to design your Bio-data.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Design menus in Html.
9	3	Design simple Calculator using Java Scripts.
10	4	Use functions in Java script.
11	4	Use strings in Java Script.
12	4	Model practical-1
13	5	Model practical-1
14	5	Model practical-1
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS305T : CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fundamentals of Java Language Basics of languages Introduction to Java Features of Java
2	1	Data Types Arrays Control Statements
3	1	Classes Objects Overloading method Overriding methods unit revision
4	2	Packages -System packages -User defined packages
5	2	Access protection -importing packages -interfaces - Implementing interfaces
6	2	Exception Handling Try,throw catch,throws finally Multhithreading unit revision
7	3	Applets : Applet life cycle – creating simple applets - Loading and displaying images on applets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	- working with graphics AWT : -introduction to AWT -AWT controls
9	3	– windows Fundamentals - layout managers -Sample programs on AWT and applets unit revision
10	4	JDBC jdbc architecture -Connecting to a Database (MS Access)
11	4	– SQL commands -select, insert, delete, update. NETWORKING: Networking Basics-
12	4	URL - Inet Address – TCP/IP Sockets UDP Sockets unit revision
13	5	RMI : Introduction to RMI -RMI architecture - Example using RMI.
14	5	- Example using RMI. Java Beans Introduction to java beans
15	5	properties of java beans Code for java beans unit revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and execution of java programs Basic programs in Java
2	1	Logical programming in java I/O operations
3	1	Area and perimeter of circle Arrays programs
4	2	packages User defined packages
5	2	Interfaces Exception Handling
6	2	Applet AWT programs
7	3	AWT programs

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA Exam
9	3	JDBC code
10	4	jdbc code
11	4	networking basics
12	4	model practical
13	5	TCP/IP program,socket program
14	5	RMI,Beans program
15	5	Model practical

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ANANTHI P**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience Thanking the gathering and organisers of the event
2	1	One act play: Refund by Fritz Karinthy Publicity literature
3	2	1. Quit India – Mahatma Gandhi (Prose) 2. Tryst with Destiny – Jawaharlal Nehru (Speech: Prose) II. Speaking : Giving One's Opinion on current National/ Social issues III. Reading : One – Act Play : The Bear – Anton Chekhov IV. Writing: Spottin...
4	2	III. Reading : One – Act Play : The Bear – Anton Chekhov IV. Writing: Spotting Errors
5	2	1. Gettysburg Address- Abraham Lincoln (Speech: Prose) 2. I have a Dream – Martin Luther King (Speech: Prose)
6	3	1. Preparing news items of local events and speaking about them 2. Sample News Item (Event)
7	3	III. Reading : One – Act Play : The Hour of Truth – Percival Wilde IV. Writing : E- Mail Writing

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA Examination
9	4	Inaugural Address by John F Kennedy Prepared to Die by Nelson Mandela Seminar presentation by students
10	4	Presentation skills Resume writing Seminar presentation by students
11	4	Sorrows of Childhood by Charles Chaplin Seminar presentation by students
12	5	Some useful Expressions Speech Writing Students seminar presentation
13	5	Marie Curie by Colin Mitchell Sarojini Naidu by Padmini Sengupta Minutes Writing
14	0	II CIA Examination
15	0	Distribution of CIA marks Revision Seminar presentation by students Distribution of internal marks

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1 PURANANOORU 1.2 AGANANOORU
2	1	ETTUTHOGAI 1.3 KURUNTHOGAI 1.4 NATRINAI 1.5 INGURU NOORU
3	1	ETTUTHOGAI 1.6 KALITHOGAI - PAALAI KALI 1.7 PARI PAADAL - THIRUMAAL
4	4	ILAKKIYA VARALAARU 4.1 ETTU THOGAI
5	4	ILAKKIYA VARALAARU PATHINEN KEEZH KANAKKU NOOLGAL
6	3	THIRUKKURAL 3.1 ARIVUDAIMAI 3.2 NATPAARAAITHAL
7	3	THIRUKKURAL 3.3 PULAVI NUNUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN 5.1 PATHRIKKAIGALIL SEITHI VARAITHAL 5.2 SURUKKI VARAITHAL
9	5	MOZHI THIRAN 5.3 NEER KAANAL
10	4	ILAKKIYA VARALAARU 4.2 PATHTHUPPAATTU
11	2	PATHTHUPPAATTU 2.1 NEDUNAL VAADAI - KAAR KAALA VARUNANAI
12	2	2.1 NEDUNAL VAADAI - KAARKAALA VARUNANAI
13	2	2.2 SIRUPAANAATRUPPADAI - KADAI EZHU VALLALGALIN SIRAPPU
14	2	2.3 MADHURAI KAANJI
15	2	2.4 MULLAI PAATTU

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Silapathigaram - Vazhakgurai kathai
2	1	1.2. Manimegalai - Aaputhiranodu manipallavam adaintha kaathai
3	4	4.1. Impernkappiyam
4	4	4.4. sozharkala kappiyangal 4.5. Incirukappiyam
5	2	2.1. Seevaga sinthamani
6	5	5.1. Banpalai vanoli nigazhci thoguppu 5.2. Vadikkaiyalar Sevai maiya Aluvalar
7	5	5.3. Suttrula vazhikkatti 5.4. Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.5. Pothukatturai
9	2	2.2. kammparamayanam - Angathanthoothu padalam
10	2	2.2. kammparamayanam - Angathanthoothu padalam
11	3	3.1. Periyapuraanam - Kazharsinganayanar puranam
12	3	3.2. Irachaniyayathrigam - Siluvaipaadugal
13	3	3.3. Sirapuranam - Pulivasanithapadalam
14	4	4.2. Kirishthava kappiyangal
15	4	4.3. Islamiya kappiyangal

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1. PURANANOORU - 183, 192 1.2. AGANANOORU - 02, 104
2	1	1.3. KURUNTHOGAI- 03, 40 1.4. NATTRINAI - 149, 110 1.5. INGURUNOORU - VETGAIPATHTHU 1-5
3	1	1.6. KALITHOGAI - PAALAIKALI 9,11 1.7. PARIPAADAL - THIRUMAAL 3 VATHU PAADAL
4	4	4.1. ETTUTHOGAI
5	4	4.3. PATHINENKEEZH KANAKGIL NEETHI NOOLGAL
6	3	THIRUKKURAL 3.1. ARIVUDAMAI 3.2. NATPAARAITHAL
7	3	3.3. PULAVINUNUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.2. SURUKKI VARAITHAL
9	5	5.3. NERKANAL
10	4	4.2. PATHTHUPPATTU
11	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 1-30
12	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 31 - 62
13	2	2.2. SIRUPANATTRU PADAI - EZU VALLALGALIN SIRAPPU
14	2	2.3. MATHURAIKANJI
15	2	2.4. MULLAIPPATTU

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS306S : FUNDAMENTALS OF ALGORITHMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Divide and Conquer: Introduction to Algorithm- Complexity analysis
2	1	Divide and Conquer - Strassen's Matrix Multiplication- Binary Search
3	1	Quick sort-Merge sort-Finding Max and Min.
4	2	Dynamic Programming:
5	2	General method-multistage graph
6	2	Traveling salesman problem
7	3	Basic Traversal and Search Technique

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Depth first search- Breadth first search
9	3	Back Tracking- Graph coloring.
10	4	Greedy method: General Method
11	4	Shortest path
12	4	0/1 Knapsack problem
13	5	Np Hard and Np Complete Problem
14	5	Basic concepts of Np
15	5	Hard and Np-Complete.

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ECS408A : COMPUTER GRAPHICS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to computer Graphics:Video display devices – Raster scan system – Random Scan System – Interactive input Devices
2	1	Graphics software – Output primitives
3	1	line drawing algorithms – Line function – circle Generating algorithms.
4	2	Output Primitives: Attributes of output Primitives – line attributes – Color and Gray scale style
5	2	Area filing algorithms – Character attributes Inquiry functions
6	2	Two dimensional transformations – Basic transformation – composite transformation – Matrix representation –Other transformations
7	3	Two – dimensional viewing – window – to view port co-ordinate transformation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	clipping algorithms – interactive input methods
9	3	logical classification of input devices – interactive picture construction methods.
10	4	Three – dimensional concepts – Three dimensional display methods
11	4	parallel Projection –Perspective projection
12	4	Depth Cueing – Visible line and surface identification.
13	5	Three dimensional transformations - Three dimensional viewing
14	5	Projection – Viewing transformations -Depth buffer(Z-Buffer) method
15	5	A-buffer method - implementation of viewing operations.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Quit India – Mahatma Gandhi Tryst with Destiny – Jawaharlal Nehru
2	2	Giving One's Opinion on current National/ Social issues One – Act Play : The Bear – Anton Chekhov
3	3	Spotting Errors Gettysburg Address- Abraham Lincoln I have a Dream – Martin Luther King
4	3	E- Mail Writing One – Act Play : The Hour of Truth – Percival Wilde
5	3	Preparing news items of local events and speaking about them
6	3	Sample News Item (Event) Revision
7	1	Revision/Slip Test

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	1 CIA
9	4	Prepared to Die- Nelson Mandela Inaugural Address – John. F. Kennedy
10	4	Presentation Skills
11	4	Autobiography : Sorrows of Childhood – Charles Chaplin
12	4	Resume Writing
13	2	Revision
14	2	II CIA
15	5	Overall Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCS402Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Probability: Basic definitions Axiomatic approach to Probability –Basic theorems on Probability , Addition theorem on probability and Addition theorem on probability related problems.
2	1	Conditional probability – Multiplication theorem of probability and Multiplication theorem related problems
3	1	Independent events , Pair wise Independent events (definition only). Baye's theorem and Bayes theorem related problems.
4	2	Discrete distributions: Binomial distribution definition , M.G.F. of binomial distribution , mean and variance of binomial distribution, Additive property of binomial distribution,and related problems
5	2	Poisson distribution definition , M.G.F. of Poisson distribution , mean and variance of Poisson distribution, Additive property of Poisson distribution,and related problems
6	2	Normal distribution definition , M.G.F. of Normal distribution , mean and variance of Normal distribution properties of Normal distribution,and related problems.
7	3	Concept of Random Variable and definition of Probability mass function, Probability density function and Distribution function. properties of random variable, random variable related problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mathematical Expectation: Properties of expectations addition theorem of expectation , multiplication theorem of expectation, and related theorems and problems.
9	3	properties of variance and simple theorems Chebychev's inequality (only theorem).
10	4	Tests of Significance (small samples) basic definitions, test of significance of population mean based on t distribution, general procedure and related problems. test of significance of difference population means based on t distribution, general proced.
11	4	paired t-test general procedure and related problems. F test general procedure and related problems. correlation coefficient general procedure and related problems
12	4	Chi–Square distribution: Test for independence of attributes. Large sample test based on Mean and Proportions.
13	5	Analysis of Variance (ANOVA) definition , basic principles of ANOVA, uses of ANOVA , basic concepts of ANOVA,
14	5	One way classifications general procedure and related problems ,two way classifications general procedure and related problems, completely Randomized Design (CRD) general procedure and related problems.
15	5	Randomized Block design (RBD) general procedure and related problems , Latin Square design (LSD) general procedure and related problems

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYA SANKAR M Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of location - Mean ,Median, Mode, Harmonic mean
5	2	Geometric mean , Measures of Dispersion- Range and coefficients of range - Quartile Deviation- Mean Deviation
6	2	Standard Deviation - Combined standard Deviation and Coefficients of variation
7	3	Measures of Skewness: Karl Pearson's, Bowley's Coefficients of Skewness.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kelly's Coefficient of Skewness , Percentile and Deciles of Coefficients of Skewness.
9	3	Kurtosis based on Moments (First, Second, Third and Fourth)
10	4	Correlation: Scatter diagram, Karl Pearson's, Spearman's rank.
11	4	Regression Analysis: Simple regression equations.
12	5	Curve fitting by the method of least squares: Straight line
13	5	Curve fitting by the method of least squares: Second degree equation
14	5	Curve fitting by the method of least squares: Power Curve and Exponential Curves.
15	0	Revision and test conducted for unit 4 and 5

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT- 1 I. Listening: Mock – Interviews / Actual Interviews II. Speaking: 1. Facing an Interview 2. Tele – Interviews
2	1	UNIT- 1 III. Reading 1. Drama: Julius Caesar - Funeral Oration – William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 01-10) IV. Writing: Description
3	2	UNIT- II I. Listening: Words often confused II. Speaking: Seminar Skills
4	2	III. Reading 1. Drama: Macbeth- He Kills Sleep - William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 11-20) IV. Writing : Idioms and Phrases
5	3	UNIT- III I. Listening: 1. Homonyms and Similar words 2. Tele – conferences III. Reading 1. Drama: Henry IV (Part I) -Play out a Play –William Shakespeare 2. Novel: The Count of Monte Cristo - Alexandre Dumas (Chapter 21-30)
6	3	IV. Writing: The use of Graphics II. Speaking: 1. Handling Customers or Clients 2. Receiving Visitors
7	3	I C.I.A

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	As you like It - William Shakespeare
9	4	Negotiation novel- the count of Monte cristo
10	4	-Homophones -book hotel accommodation and -making talk and telling short stories
11	5	Listening: Group Discussions Speaking- Making Appointments Cancelling and Rescheduling Appointments
12	5	Reading Drama- Hamlet-Churchyard-William Shakespeare Writing- Writing Review of Books
13	5	Reading Novel- The Count of Monte Cristo- Alexandre Dumas(Chapter 41-49)
14	5	Syllabus completed II CIA
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	4	Imperumkappiyam
3	4	Insirukappiyam
4	5	Pothukatturai
5	4	Erattaikappiyam
6	5	Molitheran
7	1	Manimegalai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	pothukaturai
9	2	kapiyam kambaramayanam
10	3	pariyapuranam
11	3	thambavani
12	3	seerapuranam
13	4	kapiyangal kiruthuva kapiyangal
14	4	kapiyangal kiruthuva kapiyangal
15	4	kapiyangal islam kapiyangal

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Puranannuru, Aganannuru, kurunthogai
2	1	Natrinai,Eykurunoor kalithogai
3	1	paripadal
4	4	Eattu thogail
5	4	nethinoolkal
6	3	Thirukural
7	3	thirukural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	surukivaraithal
9	5	Nerkannal
10	4	Patthupattu
11	2	Nedunelvadai 1-30
12	2	Nadunelvadai 31-62
13	2	Sirupanatrupadai
14	2	Madhuraikanchi
15	2	mullaipattu

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion-
4	2	Interview Preparation- Common Interview Questions - Questions to Ask Your Employer- What Employers Want- Attitude
5	2	Effort - Body Language –Types of Interview: The Mock Interview- Phone Interviews
6	2	Behavioral Interviews- Closing the Interview-Thank You Notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work -Time and Distance
9	3	Tabulation – Bar Graphs – Pie Charts – Line Graphs.

Cycle	Unit	Topics to be covered / Activity to be carried out
10	4	Logical Reasoning (1): Analogies –Arrangement
11	4	-Causes and Effects
12	4	-Family Tree-Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series -
14	5	Code based questions on letters of alphabet
15	5	Syllogism-Statement and Conclusion
3	1	techniques in Group Discussion-Tips for Group Discussion.
8	3	Heights and Distances

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic programs
2	1	1. Create a static web page which defines all text formatting tags of HTML in tabular format .
3	1	2. Create a static webpage using table tags of HTML .
4	2	. 3. Create a webpage using list tags of HTML. .
5	2	. 4. Create a webpage using style sheet. . .
6	2	. 5. Create a webpage using FORMS. .
7	3	. 6. Write a java Script code to generate Fibonacci series. .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	. 7. Write a java Script code to generate paybill. .
9	3	. 8. Write a java Script code to develop a simple Calculator. .
10	4	. 9. Write a java Script code using Math Functions. .
11	4	. 10. Write a java Script code using String Functions.
12	4	.Model practical I
13	5	..Model practical II
14	5	.Model practical III
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of locations
5	2	Measures of dispersion
6	2	Absolute and Relative measures
7	3	Measures of Skewness: Karl Pearson's

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Bowley's, Kelly's Coefficient of Skewness
9	3	Kurtosis based on Moments
10	4	Correlation: Scatter diagram, Karl Pearson's Coefficient of correlation
11	4	Spearman's rank correlation and concurrent deviation method
12	4	Regression analysis: Simple regression equations.
13	5	Curve fitting by the method of least squares: Straight line
14	5	Second degree equation
15	5	Power curve and Exponential curves

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCS402Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SAMPLE SPACE – EVENTS – DEFINITION OF PROBABILITY, ADDITION
2	1	MULTIPLICATIONS THEOREMS – SIMPLE PROBLEMS.
3	1	CONDITIONAL PROBABILITY – BAYE'S THEOREM (PROOF ONLY).
4	2	CONCEPT OF RANDOM VARIABLE – PROBABILITY MASS FUNCTION PROBABILITY DENSITY FUNCTION
5	2	DISTRIBUTION FUNCTION. MATHEMATICAL EXPECTATION: PROPERTIES OF EXPECTATIONS
6	2	CHEBYCHEV'S INEQUALITY (ONLY THEOREM).
7	3	STANDARD DISTRIBUTIONS: BINOMIAL (MEAN AND VARIANCE) POISSON (MEAN AND VARIANCE)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	AND FITTING OF THESE DISTRIBUTIONS.
9	3	NORMAL DISTRIBUTIONS (CHARACTERISTICS AND AREA PROBLEMS)
10	4	CONCEPT OF SAMPLING DISTRIBUTIONS – STANDARD ERROR – TESTS OF SIGNIFICANCE BASED ON T, CHI – SQUARE
11	4	AND F DISTRIBUTIONS WITH RESPECT OF MEAN, VARIANCE AND CORRELATION COEFFICIENT.
12	4	CHI – SQUARE TEST FOR INDEPENDENCE OF ATTRIBUTES. GOODNESS OF FIT. LARGE SAMPLE TEST BASED ON MEAN AND PROPORTIONS.
13	5	ANALYSIS OF VARIANCE: ONE WAY AND TWO WAY CLASSIFICATIONS.
14	5	BASIC PRINCIPLES OF DESIGN OF EXPERIMENTS: RANDOMIZATION
15	5	REPLICATION AND LOCAL CONTROL – CRD, RBD AND LSD.

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS306S : FUNDAMENTALS OF ALGORITHMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Algorithm Divide and Conquer
2	1	Complexity analysis Divide and Conquer Strassen's Matrix Multiplication
3	1	Quick sort-Merge sort Binary Search Finding Max and Min.
4	2	Dynamic Programming General method
5	2	Multistage graph Forward Approach
6	2	Multistage graph Backward Approach Traveling salesman problem
7	3	Basic Traversal and Search Technique

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Depth first search Breadth first search
9	3	Back Tracking Graph colorings.
10	4	Greedy method General Method
11	4	Shortest path
12	4	0/1 Knapsack problem
13	5	Np Hard and Np Complete Problem
14	5	Basic concepts of Np-Hard
15	5	Basic concepts of Np-Complete.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CS407Q : INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internet Services Types of accounts Media for internet
2	1	ISP TCP/IP and Connection software Dial-up Networking
3	1	setting up and Internet Connection Testing connection Disconnecting from the Internet
4	2	Contenders Issues in high-speed Connection Connecting via ISDN, ASDN and cable Modem
5	2	Intranets Components of an Intranet steps for creating Intranet
6	2	Maintenance Connecting LAN to Internet . Intranet versus Internet
7	3	Downloading E-Mails Signatures and Stationery Web based E-Mail E-mail task

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Outlook Express Sending and Receiving Files using Eudora Outlook Express and Pine
9	3	Multiple e-Mail Accounts Sending form Letters Formatting E-mail E-mail mailing List.
10	4	Introduction to HTML HTML Tags List
11	4	Creating Table Linking Documents
12	4	Frames in HTML Graphics to HTML Doc.
13	5	Introduction Advantage of JAVA Script JAVA Script Syntax Data type
14	5	Variable Array Operator and Expressions
15	5	Looping Constructor Function Dialog Box.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Programs on Basic HTML Tags
2	4	Programs based on HTML Elements
3	4	Programs Based on HTML Attributes and Formatting Tags
4	4	Programs Based on HTML List Images and Linking documents
5	4	Design a simple web page in html using formatting tags to display your address at the center of the screen
6	4	Display you're like things and dislike things using Html list. Display an image in html with comments.
7	4	Design a web page using anchor tag to display about the important persons in India

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Use html Frames to divide the screen and load few web pages in a screen.
9	4	Use html Forms to design your Bio-data.
10	4	Design menus in Html.
11	5	Simple and basic programs on Java Script
12	5	Simple Programs on Looping Constructors and Operators in Java Script
13	5	Design simple Calculator using Java Scripts.
14	5	Use functions in Java script.
15	5	Use strings in Java Script.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS305T : CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Java Features of Java Data Types Arrays
2	1	Control Statements Classes Methods Objects
3	1	Overloading methods Overriding methods.
4	2	Packages Importing & Implementing Packages
5	2	Interfaces – Exception Handling.
6	2	Thread : Life Cycle of Thread Creation of Threads Multithreading
7	3	Applet life cycle creating a simple applets Loading and displaying images on applets.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	windows Fundamentals AWT controls
9	3	working with graphics layout managers
10	4	JDBC: JDBC Architecture Types of Drivers Connecting to a Database (MS Access)
11	4	SQL commands select, insert delete update.
12	4	NETWORKING: URL Inet Address TCP/IP Sockets UDP Sockets
13	5	RMI AND BEANS: Introduction to RMI RMI architecture
14	5	Example using RMI
15	5	Introduction to java Beans Properties of beans Simple example using bean.-Revision of Syllabus-Review of Past Year Semester QP

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and execution of Java programs Basic programs in Java
2	1	Logical Programs in Java Programs Based on I/O Statements
3	1	Finding area and Perimeter of a circle. Use Buffered Reader class Programs Based on Buffered Reader class
4	2	Implementing and importing packages
5	2	Implementing Interfaces-Arithmetic Manipulations.
6	2	Exception Handling. Threading & Multi threading
7	3	Simple Programs on Applets Programs on Passing HTML to Applets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Programs Using AWT Controls Create a database for storing and manipulating student information
9	3	Create a database for storing and manipulating student mark list using AWT.
10	4	Write a program to display the IP address of a given host machine
11	4	Implement an application for sending a string from one machine to another using TCP/IP.
12	4	Implement an application for sending a string from one machine to another using UDP Sockets
13	5	Write a program to send in two values to the server program and get back the result calculated using RMI.
14	5	Incorporating Graphics symbol onto Bean box.
15	5	Incorporating circle symbol onto Bean box- Model Practical Exam

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1. PURANANOORU - 183, 192 1.2. AGANANOORU - 02, 104
2	1	1.3. KURUNTHOGAI- 03, 40 1.4. NATTRINAI - 149, 110 1.5. INGURUNOORU - VETGAIPATHTHU 1-5
3	1	1.6. KALITHOGAI - PAALAIKALI 9,11 1.7. PARIPAADAL - THIRUMAAL 3 VATHU PAADAL
4	4	4.1. ETTUTHOGAI
5	4	4.3. PATHINENKEEZH KANAKGIL NEETHI NOOLGAL
6	3	THIRUKKURAL 3.1. ARIVUDAMAI 3.2. NATPAARAITHAL
7	3	3.3. PULAVINUNUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.2. SURUKKI VARAITHAL
9	5	5.3. NERKANAL
10	4	4.2. PATHTHUPPATTU
11	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 1-30
12	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 31 - 62
13	2	2.2. SIRUPANATTRU PADAI - EZU VALLALGALIN SIRAPPU
14	2	2.3. MATHURAIKANJI
15	2	2.4. MULLAIPPATTU

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ECS408A : COMPUTER GRAPHICS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to computer Graphics:Video display devices – Raster scan system – Random Scan System – Interactive input Devices
2	1	Graphics software – Output primitives
3	1	line drawing algorithms – Line function – circle Generating algorithms.
4	2	Output Primitives: Attributes of output Primitives – line attributes – Color and Gray scale style
5	2	Area filing algorithms – Character attributes Inquiry functions
6	2	Two dimensional transformations – Basic transformation – composite transformation – Matrix representation –Other transformations
7	3	Two – dimensional viewing – window – to view port co-ordinate transformation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	clipping algorithms – interactive input methods
9	3	logical classification of input devices – interactive picture construction methods.
10	4	Three – dimensional concepts – Three dimensional display methods
11	4	parallel Projection –Perspective projection
12	4	Depth Cueing – Visible line and surface identification.
13	5	Three dimensional transformations - Three dimensional viewing
14	5	Projection – Viewing transformations -Depth buffer(Z-Buffer) method
15	5	A-buffer method - implementation of viewing operations.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mrs. T. Shalini**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock interviews/ Actual interviews Facing an interview Tele - interview
2	2	Description Words often confused Seminar skills Idioms and phrases
3	1	Julius casesar Tele-conferences The count of Monte cristo - Alexandre Dumas
4	2	Macbeth - william shakespeare Homonyms and similar words
5	3	Handling customers or clients Receiving visitors Henry IV - william shakespeare
6	2	The count of Monte cristo - Alexandre Dumas
7	3	The count of Monte cristo - Alexandre Dumas

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	4	Homophones Booking hotel accomodation Making small talk and telling stories
10	4	As you like it - william shakespeare Negotiations
11	4	As you like it - william shakespeare
12	5	Group discussions Making Appointments Cancelling and Rescheduling appointments
13	5	Hamlet - william shakespeare Writing review of books
14	5	The count of Monte cristo - Alexandre Dumas
15	2	II CIA

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	1	Manimegalai
3	2	Sevaga sinthamani
4	4	Erattai kappiyam, impermkappiyam
5	4	Insiru kappiyam
6	5	Mozhithiran
7	5	Sutrulavazhikatti, kadithangal, pothukatturai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Kamparamayanam
9	3	Periyapuranam
10	3	Thempavani
11	3	Sirapuranam
12	4	Kirusthava kappiyangal
13	4	Kerusthava kappiyangal
14	4	Esulamiya kappiyangal
15	4	Solar kala kappiyangal

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Statistics Introduction – Scope and limitations of Statistical methods – Classification of data – Tabulation of data , introduction primary and secondary data , and discuss the various methods of collecting primary and secondary data.
2	1	Diagrammatic and Graphical representation of data ,simple bar diagram multiple bar diagram percentage bar diagram.
3	1	pie diagram,frequency curve, frequency polygon, Ogive curve, Histogram,
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: define dispersion, uses of Dispersion, Range Definition , explain the formula, and related problems. Quartile Deviation definition, Q.D. related problems, Mean Deviation from mean and Mean deviation based on median related problem
6	2	Standard Deviation definition, explain the formula, and standard deviation related problems. Combined standard deviation and Cofficient ofe Variation related problems
7	3	Measures of Skewness: define skewness explain the types of skewness ,and measuring methods of skewness.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Karl Pearson's skewness related problems, and Bowley's co-efficient of skewness method related problems.
9	3	Kellys skewness related problems,Kurtosis related problems based on moments
10	4	Correlation-Definition, uses and their properties, explain the various types of correlation, Karl Pearson's coefficient of correlation explain the formula and related problems
11	4	Expalin Spearman's rank correlation coefficient concept and their formulas, Spearman's rank correlation coefficient RANK GIVEN method related problems, Spearman's rank correlation coefficient RANK NOT GIVEN method related problems
12	4	Spearman's rank correlation coefficient REPEATED RANK method related problems Concurrent deviation method related problems. explain the scatter diagram method , Regression analysis: definition expalin the Simple regression equations and related prob...
13	5	Curve fitting by the method of least squares, fitting of Straight line, general procedure and related problems.
14	5	fitting of Second degree polynomial general procedure and related problems. fitting of Power curve general procedure and related problems.
15	5	fitting of Exponential curves. general procedure and related problems.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCP401T : ALLIED PRACTICAL - STATISTICAL METHODS FOR COMPUTER APPLICATIONS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Construction of Univariate and Bivariate frequency distributions. Diagrammatic and Graphical representation of various statistical data and frequency distributions.
2	1	frequency curve , frequency polygon, pie diagram.
3	1	Histogram, simple bar diagram, Multiple bar diagram, sub divided diagram.
4	2	Mean,Median, Mode, Geometric mean , Harmonic mean, related problems
5	2	Quartile Deviation definition, Q.D. related problems, Mean Deviation from mean and Mean deviation based on median related problems standard deviation related problems. Combined standard deviation and Cofficient of Variation related problems.
6	2	Karl Pearson's skewness related problems, Bowley's co-efficient of skewness method related problems. Kelleys skewness related problems,

7	3	Curve fitting by the method of least squares, fitting of Straight line, fitting of Second degree polynomial related problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	fitting of Power curve and fitting of Exponential curves related problems
9	3	Karl Pearson's coefficient of correlation related problems. , Spearman's rank correlation coefficient related problems. Simple regression equations and related problems
10	4	Fitting of Binomial, Poisson, Normal distributions (Area Method) and testing its goodness of fit related problems
11	4	Exact tests based on t and F distributions with regard to Mean, Variance and Correlation Coefficient related problems
12	4	Large sample tests: Based of Mean and Proportions. Chi-Square distribution: Test for independence of attributes related problems
13	5	One way classification related problems two way classification related problems
14	5	completely Randomized Design (CRD) related problems , Randomized Block Design (RBD) related problems
15	5	Latin Square design (LSD) Nand related problems.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCS402Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Probability: Basic definitions Axiomatic approach to Probability –Basic theorems on Probability , Addition theorem on probability and Addition theorem on probability related problems.
2	1	Conditional probability – Multiplication theorem of probability and Multiplication theorem related problems
3	1	Independent events , Pair wise Independent events (definition only). Baye's theorem and Bayes theorem related problems.
4	2	Discrete distributions: Binomial distribution definition , M.G.F. of binomial distribution , mean and variance of binomial distribution, Additive property of binomial distribution,and related problems
5	2	Poisson distribution definition , M.G.F. of Poisson distribution , mean and variance of Poisson distribution, Additive property of Poisson distribution,and related problems
6	2	Normal distribution definition , M.G.F. of Normal distribution , mean and variance of Normal distribution properties of Normal distribution,and related problems.
7	3	Concept of Random Variable and definition of Probability mass function, Probability density function and Distribution function. properties of random variable, random variable related problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mathematical Expectation: Properties of expectations addition theorem of expectation , multiplication theorem of expectation, and related theorems and problems.
9	3	properties of variance and simple theorems Chebychev's inequality (only theorem).
10	4	Tests of Significance (small samples) basic definitions, test of significance of population mean based on t distribution, general procedure and related problems. test of significance of difference population means based on t distribution, general proced.
11	4	paired t-test general procedure and related problems. F test general procedure and related problems. correlation coefficient general procedure and related problems
12	4	Chi–Square distribution: Test for independence of attributes. Large sample test based on Mean and Proportions.
13	5	Analysis of Variance (ANOVA) definition , basic principles of ANOVA, uses of ANOVA , basic concepts of ANOVA,
14	5	One way classifications general procedure and related problems ,two way classifications general procedure and related problems, completely Randomized Design (CRD) general procedure and related problems.
15	5	Randomized Block design (RBD) general procedure and related problems , Latin Square design (LSD) general procedure and related problems

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Using Video
2	4	Working of Video
3	4	Working of Video
4	4	Broadcast video standards
5	4	Broadcast video standards
6	4	Integrating computers and television
7	4	Integrating computers and television

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Shooting and Editing Video
9	4	Shooting and Editing Video
10	4	Video tips
11	4	Video tips
12	4	Recording formats
13	4	Recording formats
14	4	Digital Video.
15	4	Digital Video.

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS511S : OPERATING SYSTEMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to Operating System-types of managements-examples
2	3	Types of memory management-Real memory management-Virtual memory management- Contiguous -non contiguous-allocation-single partition memory-fixed partition-memory management-
3	3	Variable partition memory management-examples-best fit method-first fit-worst fit methods with examples
4	3	Problems with best fit-worst fit and worst fit methods
5	3	Revision with semester question papers
6	3	Relocation and AT,sharing,protection and evaluation of variable partition method-comparison of fixed and variable partition methods
7	3	Non-contiguous Paging concept with examples-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Segmentation concept with examples-
9	3	combined with paging and segmentation in non contiguous allocation-
10	3	problems with memory management
11	3	Non continuous memory allocation-
12	3	Paging concept with examples
13	3	Segmentation with examples
14	3	Virtual memory management with examples
15	3	page replacement policies

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	.Basic programs
2	1	1. Simple Programs .
3	1	2. String Functions .
4	2	. 3. Arrays .
5	2	. 4. Function .
6	2	. 5. Create a Home Page using PHP .
7	3	. 6. Form creation using POST method .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	. 7. Database Operations .
9	3	. 8. Login form .
10	4	. 9. Student mark list creation .
11	4	. 10. Electricity bill preparation.
12	4	.Model practical exam I
13	5	.Model practical II
14	5	.Model practical III
15	5	Revision

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LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	String Functions programs using php
3	2	Array programs using php
4	2	Functions in php
5	3	Create a Home Page using PHP
6	3	Form creation using POST method
7	4	Database Operations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Database Operations
9	0	Model practical
10	5	Login form
11	5	Student mark list creation
12	5	Electricity bill preparation.
13	0	Model practical 2
14	0	Model practical 3
15	0	General programs in php

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON DURAI A.R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition – purpose of database systems – data abstraction – data models
2	1	instances and schemes – data independence – database manager
3	1	database administrator – database users – overall system structure.
4	2	Entity Relationship Model: Entities and entity sets – relationships and relationship sets – attributes – mapping constraints
5	2	keys –E-R diagram – reducing E-R diagrams to tables
6	2	generalization – aggregation
7	3	Relational Model: the relational algebra

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	The tuple relational calculus
9	3	The domain relational calculus.
10	4	First Normal Form – Second Normal Form
11	4	Third Normal Form – Boyce – Codd normal form
12	4	Fourth Normal Form.
13	5	DDL,DML,DCL operations – integrity constraints – string functions – number functions – data arithmetic – selecting distinct values – working with null values
14	5	pseudo columns – grouping and ordering data – sub queries – joins – union ,intersect & minus – indexes – clusters – views
15	5	sequences – synonym – users, roles and privileges – grant and revoke permission – locks.

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON DURAI A.R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS615S : SOFTWARE ENGINEERING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Software Engineering and Models: Introduction -Characteristics of Software-Software Myths-Process Models: The Waterfall Model.
2	1	Incremental Process Models: The Incremental Model ,The RAD Model .
3	1	Evolutionary Process Models : Prototyping ,The Spiral Model ,The Concurrent Development Model.
4	2	Requirement Engineering: Requirement Engineering Tasks - Initiating the Requirements Engineering Process- Eliciting Requirements.
5	2	Requirement Engineering: Initiating the Requirements Engineering Process- Eliciting Requirements.
6	2	Requirement Engineering: Eliciting Requirements.
7	3	Building Analysis Model: Requirement Analysis - Data Modeling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Building Analysis Model: Flow Oriented Modeling – Class Based Modeling
9	3	Building Analysis Model: Creating a Behavioral Model.
10	4	Testing: Testing strategies: Test Strategies For Conventional Software- Validation Testing.
11	4	Testing: Testing strategies: System Testing –White Box Testing – Basic Path
12	4	Testing: Testing strategies: Control Structure – Black Box Testing.
13	5	Project Management: The Management Spectrum
14	5	Project Management:The People – The Product, The Process.
15	5	Project Management: Formal Technical Reviews.

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	Simple Programs
3	1	String Functions
4	1	Arrays
5	1	Functions
6	1	Create a Home Page using PHP
7	1	Create a Home Page using PHP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Form creation using POST method
9	1	Database Operations
10	1	Database Operations
11	1	Login form
12	1	Login form
13	1	Student mark list creation
14	1	Student mark list creation
15	1	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**JCS601 : MINI PROJECT**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mini-Project introduction
2	1	How to select a project? Importance of Mini-Project
3	1	Languages used to develop a project - Introduction about the Front End - Dot.Net technologies and PHP
4	2	Introduction about Back-End MS-Access and Oracle
5	2	Steps for developing the project
6	2	How to Choose a Topic? 1000proejcts.org kashipara. com
7	3	Requirement Gathering Procedure

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	How to write an abstract?
9	3	Designing the Project
10	4	How to write the Introduction, existing system ,proposed system?
11	4	How to develop the code? Module Description
12	4	Database Design
13	4	Coding, Testing with sample inputs
14	5	Conclusion, Future Work
15	5	Binding the project,Presentation, Viva-Voce

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS510S : DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Dot Net
2	1	Dot Net Framework –CLR-MSIL-JIT
3	1	Managed Code-Benefits of Dot Net.
4	2	C#.Net: Data types-Variables-Arrays
5	2	Properties-Control structures-
6	2	Namespace-Methods-Interface-Delegation.
7	3	Asp.net: Difference between Asp and Asp.net-Architecture of Asp.net-Execution model

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Architecture of Asp.net-Execution model.
9	3	Difference between Code Behind and aspx file-Implementation of simple web application.
10	4	Controls in C#: Button-Textbox
11	4	Timer-PictureBox-RadioButton-Menu.
12	4	Web Controls: AdRotator-Validation-Calendar .
13	5	ADO.NET: ADO.Net Objects Model
14	5	Architecture of ADO.NET.
15	5	Working with Grid control

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Console Application Basic Programs
2	1	Windows Application
3	1	Student Mark Sheet Electricity Bill Calculator Custom Image
4	2	Login Controls
5	2	Login controls Using MS Access Database
6	2	Notepad Application
7	3	Telephone Directory Using MS Access

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Splash Screen
9	3	Drop Down list Combo Box Radio Button Chess Box
10	4	Student Mark sheet MS Access
11	4	Ad Rotator Database application for student mark list processing using validation control
12	4	ASP LOGIN ASP BIO DATA
13	5	Create an application to sending a request from one page to another using session
14	5	Create a simple website for an organization using Master Page
15	5	Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction ESSENTIAL PHP Creating your Development Environment – Mixing HTML and PHP – Command
2	1	Line PHP – Working with Variables – Creating Constants – Understanding PHP's
3	1	Internal Data types – Operators and Flow Control.
4	2	STRINGS AND ARRAYS String Functions
5	2	Converting to and from Strings - Formatting Text String - Modifying Data in an Array-
6	2	Deleting Array Elements- Arrays with Loops - PHP Array Functions-Sorting Arrays.
7	3	CREATING FUNCTIONS: Passing Functions-Passing Arrays to Functions- Passing by Reference-Using Default Arguments

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Returning Data from functions- Nesting Functions. CONTROL STATEMENTS: Data Input/Output functions
9	3	Flow of control-control structures - switch, break and continue - Go to statement-comma operator.
10	4	READING DATA IN WEB PAGES Setting up web pages to communication with PHP
11	4	Handling Text Fields Checkbox-Radio button-Password Controls
12	4	List boxes- Buttons – Hidden Control – File Upload.
13	5	WORKING WITH DATABASES Creating a MY SOL Database-Creating a New Table-Putting Data into the New Database-Accessing the Databases in PHP
14	5	Updating Databases-Inserting New Data Items into a Database
15	5	Deleting Records-Creating New Tables-Creating a New Database-Sorting your Data.

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	Data Types Program
3	1	String Functions
4	2	Varibles
5	2	Even Odd Program
6	2	Reverse String
7	3	Arrays

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Functions
9	3	File Handling
10	4	Create a Home Page using PHP
11	4	Form creation using POST method Upload Download
12	4	Database Operation
13	5	Login form
14	5	Student mark list creation
15	5	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**ECS512A : DATA COMMUNICATION AND NETWORK**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Networks: Protocols and standard - Line Configuration
2	1	Topology - Transmission mode
3	1	Categories of networks - Inter networks
4	2	The OSI Model - Functions of Layers - TCP/IP Suite
5	2	Signals - Dialog and Analog Signals - Periodic and Aperiodic Signals
6	2	Data Terminal Equipment - Data Circuit Terminal Equipment - Modems
7	3	Transmission media - Guided and Unguided media - Transmission Impairments

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Error Detection and error correction
9	3	Multiplexing - CRC - LRC - TDM
10	4	Switching Concepts in Networks
11	4	Packet Switching, Message Switching - Inter networking - Hubs, Routers, Repeaters, Gateways
12	5	Routing Algorithm - Distant Vector Routing - Link State Routing
13	5	Flow Control - Data Flow Control - Error Control
14	1	Revision on Unit I,II and III
15	4	Revision on Unit IV and V

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS613S : COMPUTER ARCHITECTURE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit - General Register and Stack Organisation
2	1	Instruction Formats-Addressing Modes
3	1	Data Transfer and Manipulation
4	2	Pipelining: Arithmetic
5	2	Instruction and RISC Pipelining
6	2	Vector Processing
7	3	Computer Arithmetic: Addition and Subtraction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplication and division Algorithms
9	3	Floating Point and Decimal Arithmetic operations
10	4	Input Output Organization: Peripheral Devices- I/O Interface
11	4	Asynchronous Data Transfer-Models of Transfer-Priority Interrupt
12	4	Direct Memory Access – I/O Processor
13	5	Memory Organization: Memory Hierarchy
14	5	Main Memory-Auxiliary Memory
15	5	Associative Cache and Virtual Memory.

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS511S : OPERATING SYSTEMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of Operating System- Booting
2	1	Operating system functions -Kernel
3	1	History of Operating system
4	2	Process Management and Deadlock
5	2	Process Management
6	2	Process state Transition Diagram
7	2	PCB Chain – Operation on Process –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Process Scheduling -Dead Lock - Dead Lock prerequisites - Dead Lock Strategies.
9	4	GUI and Security
10	4	GUI – Components of GUI ,Security Protection: Threats
11	4	Requirements of Windows based GUI
12	4	– Attacks – Worms – Virus - Design principles – Authentication – Protection mechanisms – Encryption.
13	5	UNIX
14	5	Unix-Architecture of Unix
15	5	File System of Unix- Basic commands in UNIX.

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition and Introduction to Multimedia,Introduction to Making Multimedia:Needs of Multimedia -
2	1	TEXT: The power of meaning – About fonts and faces – Using text in multimedia –
3	1	Computers and Text – Font editing and Design tools – Hypermedia and Hypertext.
4	2	SOUND: The power of sound – Multimedia system sounds
5	2	MIDI versus Digital Audio – Digital Audio ,IMAGES: Making still Images – Color – Image file formats.
6	2	Making MIDI audio – Audio, File formats – Adding sound to your Multimedia project
7	3	ANIMATION: The Power of Motion

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Principles of Animation
9	3	Making animations that works.
10	4	VIDEO: Using Video – Working of Video – Broadcast video standards
11	4	Integrating computers and television – Shooting and Editing Video
12	4	Video tips – Recording formats – Digital Video.
13	5	PLANNING AND COSTING: Project planning
14	5	Estimating – RFPs and Bid Proposals
15	5	Designing – Producing.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Using Video
2	4	Working of Video
3	4	Working of Video
4	4	Broadcast video standards
5	4	Broadcast video standards
6	4	Integrating computers and television
7	4	Integrating computers and television

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Shooting and Editing Video
9	4	Shooting and Editing Video
10	4	Video tips
11	4	Video tips
12	4	Recording formats
13	4	Recording formats
14	4	Digital Video.
15	4	Digital Video.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	String Functions programs using php
3	2	Array programs using php
4	2	Functions in php
5	3	Create a Home Page using PHP
6	3	Form creation using POST method
7	4	Database Operations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Database Operations
9	0	Model practical
10	5	Login form
11	5	Student mark list creation
12	5	Electricity bill preparation.
13	0	Model practical 2
14	0	Model practical 3
15	0	General programs in php

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAYAPAL J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**ECS512A : DATA COMMUNICATION AND NETWORK**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Networks ; Introduction about Networks - Data Communication and Networks
2	1	Topology and Transmission Mode
3	1	Categories of Networks and Internet works
4	2	functions of the layers – TCP/IP protocol suite
5	2	signals – analog and digital signal – periodic and a periodic signals
6	2	data transmission – data terminal equipment – data circuit terminals equipment – modems.
7	3	guided media – unguided media – transmission impairments – media comparison

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplexing – FDM – TDM – WDM. Error detection and correction – types of errors–detection
9	3	vertical redundancy check (VRC) – longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction
10	4	Circuit switching – packet switching – message switching
11	4	networking and internetworking devices
12	4	repeaters – bridges – routers – gateways
13	5	distance vector routing – link state routing
14	5	data link control – line discipline
15	5	flow control – error control.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAYAPAL J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS613S : COMPUTER ARCHITECTURE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit: General Register and stack Organization
2	1	Instruction Formats-Addressing Modes
3	1	Data Transfer and Manipulation.
4	2	Pipelining: Arithmetic, Instruction
5	2	RISC Pipelining
6	2	Vector Processing.
7	3	Computer Arithmetic: Addition and Subtraction

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Floating Point and Decimal Arithmetic operations.
10	4	Input Output Organization: Peripheral Devices- I/O Interface -
11	4	Asynchronous Data Transfer-Models of Transfer-Priority Interrupt
12	4	Direct Memory Access – I/O Processor.
13	5	Memory Organization: Memory Hierarchy
14	5	Main Memory-Auxiliary Memory –
15	5	Associative Cache and Virtual Memory.
8	3	Matrix Multiplication and Division

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUN BENEDICT A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	DDL commands, DML commands, Simple queries using DDL and DML commands
2	5	Integrity constraints, Aggregate functions,
3	5	Number functions , String functions, data Arithmetic, selecting distinct values, working with null values,Pseudo columns, grouping and ordering data
4	5	union ,intersect & minus – indexes – clusters – views – sequences – synonym
5	5	users, roles and privileges – grant and revoke permission – locks.
6	1	Definition – purpose of database systems – data abstraction
7	1	data models – instances and schemes – data independence – database manager –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	database administrator – database users – overall system structure.
9	2	Entities and entity sets – relationships and relationship sets
10	2	– attributes – mapping constraints – keys –E-R diagram
11	2	reducing E-R diagrams to tables – generalization – aggregation.
12	4	First Normal Form – Second Normal Form –
13	4	Third Normal Form
14	4	Boyce – Codd normal form
15	4	Fourth Normal Form.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUN BENEDICT A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Creating development Environment Mixing Html and PHP command line php Working with variables
2	1	Creating Constants PHP data types Php operators Flow control
3	2	String Functions Converting to and from Strings Formatting Text Strings
4	2	Modifying Data in an Array Deleting Array elements Arrays with loops
5	2	Php Array Functions Sorting Arrays
6	3	Passing Functions Passing Arrays to Functions Passing by Reference
7	3	Using Default Arguments Returning Data from functions Nesting functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data Input and output functions flow of control
9	3	Control Structures Switch, Break and Continue Statement Go to Statement Comma operator
10	4	Setting up web pages to communication with PHP handling text fields check box Radio button
11	4	Password controls List boxes buttons Hidden controls File Upload
12	5	Creating MYSQL database Creating a new table
13	5	Putting data inot the new database Accessing the Databases in PHP Updating Databases
14	5	Inserting new data items into a Database Deleting Records
15	5	Creating new tables Creating new Database Sorting data

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	Simple Programs
3	1	String Functions
4	1	Arrays
5	1	Functions
6	1	Create a Home Page using PHP
7	1	Create a Home Page using PHP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Form creation using POST method
9	1	Database Operations
10	1	Database Operations
11	1	Login form
12	1	Login form
13	1	Student mark list creation
14	1	Student mark list creation
15	1	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Dotnet
2	1	Simple Programs based on Console Applications
3	1	Simple Programs based on Windows Applications
4	2	Programs based on Mathematical Applications
5	2	Programs using standard controls
6	2	Programs using standard controls
7	3	Basic programs on ASP.Net using Tool box

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Simple creation of Web pages
9	3	Program for Linking of one Web pages from another Webpages
10	4	Creating Simple Web Application using Master Pages
11	4	Creating Simple Web Application using Controls
12	4	Creating Simple Web Application using Calendar
13	5	Simple Program on Connecting Data base using MS-Access
14	5	Simple Program on Creating Objects Models in Dotnet
15	5	To develop database Application for Email Directory to store phone number, Customer name and Customer address and display it with Grid View control. (MS Access)

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MULTIMEDIA: Definition and Introduction to Multimedia – Introduction to Making Multimedia
2	1	Needs of Multimedia - TEXT: The power of meaning – About fonts and faces – Using text in multimedia
3	1	Computers and Text – Font editing and Design tools – Hypermedia and Hypertext. Unit revision
4	2	SOUND: The power of sound – Multimedia system sounds – MIDI versus Digital Audio
5	2	Digital Audio – Making MIDI audio – Audio, File formats
6	2	Adding sound to your Multimedia project. digital audio making and tools Unit revision
7	3	IMAGES: Making still Images – Color – Image file formats.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	ANIMATION: The Power of Motion – Principles of Animation
9	3	Making animations that works. Unit revision
10	4	VIDEO: Using Video – Working of Video – Broadcast video standards
11	4	Integrating computers and television – Shooting and Editing Video
12	4	Video tips – Recording formats – Digital Video. Unit revision
13	5	PLANNING AND COSTING: Project planning
14	5	Estimating – RFPs and Bid Proposals - Designing
15	5	Project Producing. Unit revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Students Mark Sheet, Time and Date,
2	2	Odd or even, greatest no, swapping using Console
3	2	Voter Id,Arithmetic Operations
4	3	EB Bill Generation
5	4	Master Page Creation
6	5	Login Page Creation
7	6	Console,Form Design,Button,Label Creation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	7	Multiple From Generation
9	8	Database Creation using Excel
10	9	Color Chooser using Standard Colors
11	10	Notepad Applications,Button,Pannel
12	11	Check Box,List Box,Combo Box Properties
13	11	Master Page Creation
14	12	Chatting Application
15	13	Registration Validation,Sample Project Assigned

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to html HTML tags Scripting language Introduction to javascript CSS in javascript with examples
2	1	Introduction to server side scripting language introduction to PHP Create user development environment Web server Database server
3	1	Mixing HTML and PHP Command line Working with variables Creating constants PHP internal data types
4	2	Operators String functions Converting to and from strings
5	2	formatting text string Introduction to an array Types of an array Modifying data in an array
6	2	Deleting an array elements Arrays with loops PHP array function
7	3	Sorting an array Introduction to function Passing argument to a function Passing array to functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Passing by reference Using default argument Returning data from function Nesting function
9	3	Data input and output functions Flow of control statements Comma operator
10	4	Setting up web pages to communication with PHP Handling text field
11	4	Checkbox Radio button Password controls List boxes
12	4	Buttons Hidden controls File upload
13	5	Introduction to MySQL Creating MySQL database Creating a new table Putting data into the new database
14	5	Accessing the databases in PHP Updating database Inserting new data items into database Deleting Records
15	5	Creating multiple tables Sorting data in a table Complete Example

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LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**JCS601 : MINI PROJECT**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mini-Project introduction
2	1	How to select a project? Importance of Mini-Project
3	1	Languages used to develop a project - Introduction about the Front End - Dot.Net technologies and PHP
4	2	Introduction about Back-End MS-Access and Oracle
5	2	Steps for developing the project
6	2	How to Choose a Topic? 1000proejcts.org kashipara. com
7	3	Requirement Gathering Procedure

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	How to write an abstract?
9	3	Designing the Project
10	4	How to write the Introduction, existing system ,proposed system?
11	4	How to develop the code? Module Description
12	4	Database Design
13	4	Coding, Testing with sample inputs
14	5	Conclusion, Future Work
15	5	Binding the project,Presentation, Viva-Voce

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LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS615S : SOFTWARE ENGINEERING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Software Engineering and Models: Definition - Characteristics of Software
2	1	Software Myths-Process Models: The Waterfall Model- Incremental Process Models: The Incremental Model ,The RAD Model .
3	1	Evolutionary Process Models : Prototyping ,The Spiral Model ,The Concurrent Development Model.
4	2	Requirement Engineering: Requirement Engineering Tasks.
5	2	Initiating the Requirements Engineering Process- Eliciting Requirements.
6	3	Building Analysis Model: Requirement Analysis .
7	3	Data Modeling – Flow Oriented Modeling .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Class Based Modeling.
9	3	Creating a Behavioral Model.
10	4	Testing: Testing strategies: Test Strategies For Conventional Software.
11	4	Validation Testing – System Testing.
12	4	White Box Testing – Basic Path- Control Structure – Black Box Testing.
13	5	Project Management: The Management Spectrum.
14	5	The People – The Product, The Process -The Project.
15	5	Formal Technical Reviews (FTP)

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS511S : OPERATING SYSTEMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Operating System Definition, Booting ,Kernel
2	1	Functions of Operating System,History of Operating System
3	2	Process Management,Context Switching,Process States,Diagram,PCB,PCB Chain,Levels of Scheduling
4	2	Short term scheduling, Inter process communication, mutual exclusion, critical region,solutions
5	2	Deadlock,Deadlock prerequisites, deadlock methods, ignore,deduct,prevent,avoid,recover from deadlock
6	3	memory management,introduction, types, single contiguous memory management,Fixed partition memory management
7	3	variable partition management,Paging,Segmentation,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	virtual memory management,Page replacement policies
9	4	Graphical user interface,Components of GUI
10	4	Requirements of GUI,security threats, attacks,virus,worms
11	4	Security design principles, Authentication,Encryption
12	4	Protection Mechanism
13	5	Unix Introduction, Architecture,File System
14	5	Different Types of Files, Inode, Unix Directories and Files
15	5	Basic Commands i Unix, Revision For all the units and question papa er discussion.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	RELATION MODEL
2	3	PROCEDURAL MODEL, NON PROCEDURAL MODEL
3	3	RATIONAL ALGEBRA
4	3	SELECTION OPERATION ,PROJECTION OPERATION
5	3	CARTESIAN PRODUCT OPERATION , INTERSECTION OPERATION
6	3	UNION OPERATION ,ASSIGNMENT OPERATION
7	3	RELATIONAL CALCULUS , DOMAIN RELATIONAL CALCULUS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	NORMALIZATION INTRODUCTION
9	4	NORMALIZATION EXAMPLE
10	4	TYPES OF NORMALIZATION
11	4	,First Normal Form
12	4	Second Normal Form
13	4	THIRD NORMAL FORM
14	4	Boyce – Codd normal form -
15	4	Fourth Normal Form

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP505 : PRACTICAL - ORACLE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION -BASIC PROGRAMS
2	1	COMMANDS IN SQL
3	1	OPERATION IN RDBMS
4	2	DATABASE CONNECTION
5	2	CREATE TABLE
6	2	INSERT TABLE
7	3	UPDATE TABLE

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	DELETE VALUES IN TABLE
9	3	COMMANDS IN SQL
10	4	COMMAND BASED CODING
11	4	INSERT TABLE
12	4	DELETE VALUES IN TABLE
13	5	OLED CONNECTION
14	5	ODBC CONNECTION
15	5	DATA BASE MODEL DESIGN

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Programs on C++
2	1	Simple Programs Based on Datatypes in C++
3	1	Develop a Simple C++ Programs based on Mathematical Formulas
4	2	Simple Programs Based on operators & Control Statements
5	2	Programs Based on Arrays
6	2	Crete Simple programs based on Various Functions
7	3	Create a Programs based on Constructor in C++

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Programs based on Destructors in C++
9	3	Programs Based on Operator Overloading & Virtual Functions
10	4	Programs Based on Implementing the Concept of single Inheritance in C++ Programs Based on Implementing the Concept of Multiple Inheritance in C++
11	4	Programs Based on Implementing the Concept of Multilevel Inheritance in C++ Programs Based on Implementing the Concept of Hierarchical Inheritance in C++
12	4	Programs Based on Implementing the Concept of Hybrid Inheritance in C++
13	5	Implement PUSH, POP operations of stack using Arrays.
14	5	Implement add, delete operations of a queue using arrays. Conversion of infix to postfix using stacks operations.
15	5	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thrumullar, Thoderadipodi azhvar
2	1	Thrunavukarasar, Manickavasakar
3	1	Andal Patinathar
4	4	Azhvarkal
5	5	Puzhagu porul
6	5	Mozhipayarupu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Throgasuvadugal
9	3	Throgasuvadugal
10	3	Throgasuvadugal
11	4	Sitruelackeyam
12	4	Eslamum tamilum
13	2	Kumarakurbarar
14	2	Nanthi kalabagam
15	2	Muckudar pallu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASIC PROGRAMS
2	1	LOGICAL PROGRAMS
3	1	PROGRAMS WITH ARRAYS,MATRIX WITH FOR LOOP
4	2	PROGRAMS WITH FORMULAE
5	2	GENERAL PROGRAMS
6	3	GENERAL PROGRAMS
7	3	GENERAL PROGRAMS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GENERAL PROGRAMS
9	3	MATRIX PROGRAMS
10	3	MATRIX MULTIPLICATION PROGRAMS
11	4	Matrix Transpose
12	4	Recursion with examples
13	4	File handing
14	5	Implementing looping and control statements
15	5	Revision of the programs

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHNBOSCO A Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Marabu kavithaigal -Thiruvarutpa-Eramalingavallalar Magakavi Barathiyarin- Baratha Desam
2	1	Barathidasanin Ulagam unnudaiyathu Kavimaniyin Aasiya jothi-Buhtharin Arivurai
3	1	1.Kaviyarasu Kannadasanin Eyasukaaviyam Uothsarippillai Uvamai
4	3	Elakkiya Varalaru-20am Nutrandu Kavijarkal Sirukathaiyin Thotramum Valarchium
5	4	Sirukathaigal-Kathavu,Ki.Erajanaarayananin Kathavu,Kudumbaththil Oru nabar
6	5	Mozhiththiran -Vallotru migum migaa Edangal
7	2	Abdhul Raguman-Aalabanai Mu Methaa-Thesappithavukku theruppadaganin Anjali Thamizhachi-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	????????????? - 2 ?? ?????????? –???????????????? ????????????? ??????
9	2	????????????? –????????? ??????????? –??????????????
10	4	??????? –??????
11	4	???????-???????
12	2	????????????? ???????? –???????? ????????
13	3	?????????????- ?????????????? ????????? ??????????
14	3	?????????????-??????????? ???????????
15	4	???????-????????????

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Vallar - thiruvarutpa Barathiyar - Bharathathesam
2	1	Barathidasan - ulagam unudaiyathu Kavimani - Buthar(asiyajothi)
3	1	Kannadosan - Yasukaviyam
4	3	Ilakiya Varalaru - Irubatham noortandu Kavingergal
5	3	Ilakiya Varalaru - Sirukathai Thortam Valarchi
6	4	Kathavu Sirukathai
7	4	Kudumbathil Oru Nabar Sirukathai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran Vallinam Migum, Migamidam
9	2	Abdul Rahuman _ aravathu arivu
10	2	M.Matha - Dasapitha Vairamuthu - Suyakolli
11	2	Tamilachi - Tholamai Natupurapadelgal
12	3	Ilakiya Varalaru - Putjukavithai Thortam Valarchi
13	3	Ilakiya Varalaru - Natupura Ilakiyangal
14	4	Sirukathai - Jail, Minnal
15	4	Sirukathai - Elutha Marantha Kathai

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple C program using general structure of C
2	1	C programs with variable declaration,statements,operators
3	2	C programs with I/O functions
4	2	C programs using branching statements
5	2	C programs using loop structures
6	2	C programs using functions
7	3	C programs using one-dimensional Arrays

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	C programs using two dimensional arrays
9	4	Functions
10	4	Functions
11	4	Recursion
12	5	String Functions
13	5	Sorting and Searching
14	5	Files
15	5	Pointers

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Data structure Definition of a Data structure
2	1	Primitive and Composite Data types,
3	1	Arrays, Operations on Arrays - Order Lists.
4	2	Stacks and Queues: Stacks Operation
5	2	Application of Stack Infix to Postfix Conversion -
6	2	Queues Operations on Queues, Queue Applications - Circular Queue.
7	3	Linked List: Singly Linked List Representation of a Polynomial

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polynomial addition
9	3	Doubly Linked List.
10	4	Trees: Binary trees Representation
11	4	Conversion of Forest to Binary tree
12	4	Tree Traversals.
13	5	Graphs: Definition Graph Representation
14	5	Types of Graphs
15	5	Shortest Path (Dijikistras Algorithm).

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Data Structure, Definition of Data Structure
2	1	Types of Data Structure, Primitive and Composite Data Types
3	1	Types of Data Types, Arrays
4	1	Types of Arrays, Definition of an Array
5	3	Linked Lists -Definition , Structure of Linked Lists
6	3	Singly Linked List Definition, Node Representation,
7	3	Polynomial Addition Using Singly Linked List (Array)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Douby Linked Lists-Definition
9	3	Doubly Linked Lists- Operations
10	3	Polynomial Addition Using Doubly Linked List (Pointers)
11	5	Graph-Definition-Introduction
12	5	Various Types of Graphs-Rules
13	5	Representations of Graph-Adjacency Matrix
14	5	Adjacency List,Adjacency Multi-list
15	5	Shortest Path Algorithm(Dijikstra's Algorithm)

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS101B : PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to C,Basics of C language, keywords identifiers
2	1	Data types, Keywords Constants
3	1	operators library functions
4	2	Data Input Output functions Simple c programs Decision making statements
5	2	Iterative or Looping Statements
6	2	Branching Statements
7	3	User defined functions Definition Prototypes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Passing Arguments Recursion
9	3	Storage Classes
10	4	Arrays Definition Declare an array initialization of an array Types of array Passing array to a function
11	4	Structure Definition Declaration of structure members Accessing structure members Difference between array and structure
12	4	Union Definition Declaration Accessing union members Difference between structure and union
13	5	Pointers Definition of pointer Defining pointer variable Initialization of pointer variable operators in pointer
14	5	Passing pointer to a function File Definition File pointer File function fopen fclose
15	5	Input output operation on file Examples

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple C Programs
2	1	C programs Using Operators
3	1	C programs using String and Math Functions
4	2	C Programs using decision making statements
5	2	C Programs using looping
6	2	C program using branching statements
7	3	C program using user defined functions program for recursion

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Program using storage class
9	4	Matrix manipulation Matrix addition Matrix multiplication
10	4	Transpose of matrix Program to passing array to a function
11	4	C programs using the concept of structure
12	4	C programs using unions
13	5	C program using pointers
14	5	C program to passing pointer to a function
15	5	C program to handling a File opening a file read from a file write into a file closing a file

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS203S : PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles of object oriented programming Programming paradigm Key concept of oops Advantages of oops
2	1	Usage of oops Evolution of C++ Input and output streams in c++ with examples Class
3	2	Unformatted console input and output operations Keywords Identifiers Variables Constants Operators
4	2	Expression Control structure
5	2	Pointers Array Function in c++
6	2	Main function Parameters passing in functions Values return by functions
7	3	Inline function Function overloading Classes and object

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Constructors Destructors
9	3	Operator overloading Type conversion Friend function and virtual function
10	4	Inheritance Single inheritance Multilevel inheritance
11	4	Multiple inheritance Hierarchical inheritance Hybrid inheritance
12	4	Virtual base class Virtual function and polymorphism
13	5	Introduction to file Classes for file stream operation Opening and closing a file
14	5	End of file File detection File Pointers
15	5	Updating a file Error handling during file operation Command line argument

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Program using input and output stream
2	1	Simple programs
3	2	Program using control structures
4	2	Program using Pointers Program using arrays
5	2	Implementing function Implementing Inline function
6	3	Function overloading program
7	3	Implementing class and object

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Program using constructor and destructor Implement operator overloading
9	3	Implementing Inline function Implementing Friend function
10	4	Implementing Virtual function
11	4	Implementing Inheritance
12	4	Program for stack operation using arrays
13	5	Implement operation queue using array
14	5	Conversion of Infix to Postfix using stack operations
15	5	Program for binary tree traversals

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKTHI ILAKKIYANGAL 1.1 THIRUMOOLAR 1.2 THONDARADI PODI AAZHVAAR
2	1	1.3 THIRUNAAVUKKARASAR - THEVAARAM 1.4 MAANIKKA VASAGAR - THIRUVAASAGAM
3	1	1.5 AANDAAL - THIRUPPAAVAI 1.6 PATTINATHTHAAR - PULAMBAL
4	4	ILAKKIYA VARALAARU 4.1 SAMBANTHAR, SUNTHARAR MATTUM 4.2 AAZHVAARGAL (MUTHALAAZHVAAR MOOVAR MATTUM)
5	5	MOZHITHIRAN THAMIZHIL PIRA THURAIGAL, ARIVIYAL, AATCHITHURAI, KANINI, PUZHANGU PORULKAL
6	5	MOZHI PEYARPPU PAGUTHI (AANGILATHIL MOZHI PEYARKKA) KADITHANGL INIYA ELIYA THAMIZH MOZHI PEYARPPU
7	4	ILAKKYA VARALAARU 4.5 URAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	URAI NADAI THROGA CHUVADUGAL - VEY. IRAIYANBU
9	3	URAI NADAI THROGA CHUVADUGAL - VEY. IRAI ANDU
10	3	URAI NADAI THROGA CHUVADUGAL - VEY. IRAI ANBU
11	4	ILAKKIYA VARALAARU 4.3 SITRILAKKIYANGAL (THOOTHU, ULAA, KURAVANJI, ANTHATHI MATTUM)
12	4	ILAKKIYA VARALAARU 4.4 ISLAAMUM THAMIZHUM
13	2	SITRILAKKIYANGAL 2.1 MASTHAAN SAKIPPU - PARAABARAKKANNI 2.2 KUMARA KURUBARAR - PILLAI THAMIZH
14	2	2.3 KALINGATHU PARANI - PORE KALAM 2.4 NANTHI KALAMBAKAM - NANTHIVARMAN
15	2	2.5 MUKKOODAR PALLU - PALLARKALIN VALAM

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Arithmetic operations in C Programs
2	1	Conditional Statements in C programs
3	1	Control Structures in C programs
4	2	Sorting Programs
5	2	String Operations
6	2	Switch case statements and Control structures
7	3	Functions programs - Passing arguments

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Binary search and Linear search
9	4	Arrays - Matrix Addition
10	4	Matrix Manipulations
11	4	I CIA model Practical Exam
12	4	Transpose of Matrix
13	5	Recursion Program
14	5	File Handling - Student Mark sheet Generation
15	5	II CIA model Practical Exam

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LESSON PLAN

Name of the Staff	**Mrs. T. Shalini**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making Requests and Responding to Requests Thanking someone and Responding to thanks
2	1	How to be a Doctor - stephen Leacock Precis writing Non - Finite verbs Strong and eeak verbs
3	2	Strong and weak Forms in Transcription Inviting , Accepting and Refusing an Invitation Apologising and Responding to an Apology
4	2	Auguries of Innocence - William blake Note - Making Use of Wrong preposition
5	3	My visions for India - A.P.J. Abdul Kalam Report writing
6	1	The Auxiliaries Unnecessary use of articles
7	3	Punctuation and capitals

Cycle	Unit	Topics to be covered / Activity to be carried out
9	4	Sentence transcription Describing daily routines
10	4	Poem If Paragraph writing
11	4	The merchant of venice Personal details
8	1	I CIA
12	5	Transcribing short passage Asking for directions and giving directions
13	5	Kiran Bedi
14	5	Use of wrong tenses Prefixes and suffixes
15	2	II CIA

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LESSON PLAN

Name of the Staff	**ANJAL MOSE S Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Rank of a matrix
2	3	Consistency of equations
3	3	Eigen roots and Eigen vectors ,
4	3	Cayley – Hamilton's theorem
5	3	Cayley – Hamilton's theorem problems
6	3	Verification and computation of inverse matrix
7	3	Verification and computation of inverse matrix

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reciprocal equations
9	2	Reciprocal equations
10	2	Reciprocal equations
11	4	Newton’s method to find a root approximately
12	4	Newton’s method to find a root approximately
13	4	Newton’s method to find a root approximately
14	4	Newton’s method to find a root approximately
15	4	Newton’s method to find a root approximately

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AMCS22 : ALLIED MATHEMATICS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Backs concepts of laplace transform
2	3	Laplace transform of standard functions
3	3	Properties of Laplace transform
4	3	Problems based on property 1 of L. P
5	3	Problems based on property 2 and 5 of L. P
6	3	Standard functions and properties of laplace transform.
7	3	Inverse laplace transform and properties.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Problems discuss about inverse Laplace transform.
9	5	Finite Differences - Introduction -interpolation -extrapolation.
10	5	Forward difference, Backward difference table.
11	5	Definition of operator forward and backward Del, operator E, inverse of E.
12	5	Newton's interpolation formulae.
13	5	Newton's forward interpolation formula.
14	5	Newton 's backward formula for interpolation .
15	5	Lagrange's interpolation formula for unequal intervals (without proof).

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Theory of equation, Polynomial equations with real coefficients.
2	1	Polynomial equations with irrational roots
3	1	Polynomial equation with complex roots.
4	1	Solving equations with related roots.
5	1	Equation with given numbers as roots.
6	1	Equation whose roots are symmetric functions of roots of a given equation.
7	2	Transformatiomation of an equation by diminishing its roots by a constant.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reciprocal equations, Approximate equations.
9	2	Newton's method to find a root approximately.
10	5	n th derivatives..Discussion about nth derivatives simple problems.
11	5	Problem based on n that derivatives.
12	5	Introduction of Jacobian and based problems.
13	5	Leibnitz's theorem, Equations in differential coefficients.
14	5	Definition of Curvature and radius of curvature.
15	5	Problems based on radius of curvature in Cartesian coordinates, in polar coordinates and in parametric equations.

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	2	Apologising Making Request
5	2	Audio – Video lessons
6	3	Telephonic communication / Business
7	0	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	I CIA
9	4	Building powerful vocabulary Coining related words
10	4	Acronym Mispronounced words
11	5	Extempore
12	5	Elocution
13	5	Description Narration Paragraph Writing
14	0	II CIA
15	0	REVISION

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AMCS22 : ALLIED MATHEMATICS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Two Person Zero Sum Game-Basic Terms
2	1	Maximum and Minimum Principal-Games Without Saddle points
3	1	Mixed Strategies-Graphical Solution of 2Xn and mX2 games-Dominance Property
4	2	Definition of Assignment Model- Formulation Assignment Model
5	2	Solution of Assignment Model
6	2	Special Cases in Assignment Model
7	3	Laplace Transform of Standard functions and Properties

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Problems on Laplace Transform of Standard functions and Properties
9	3	Inverse Laplace Transform and Problems on inverse Laplace Transform
10	4	Scalar point functions
11	4	Vector point functions-Gradient-Divergence
12	4	Curl-Directional Derivatives-Unit to normal to a surface
13	5	Operator E, Relation between and E – Interpolation – Newton – Gregory forward interpolation
14	5	Newton backward formulae for interpolation
15	5	Lagrange's interpolation formula for unequal intervals(without proof)

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Interview Preparation
3	2	What Employers Want
4	2	Attitude & Effort Body Language
5	2	Types of Interview The Mock Interview
6	2	Phone Interviews
7	2	Behavioural Interviews Closing the Interview
8	2	Thank You Notes & Follow-Ups

Cycle	Unit	Topics to be covered / Activity to be carried out
9	5	Logical Reasoning
10	5	Sequence and Series
11	5	Code based questions on letters of alphabet
12	5	Syllogism
13	5	Statement and Assumption
14	5	Analyzing Arguments
15	5	Making Judgments
2	2	Questions to Ask Your Employer

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion-
4	2	Interview Preparation- Common Interview Questions - Questions to Ask Your Employer- What Employers Want- Attitude
5	2	Effort - Body Language –Types of Interview: The Mock Interview- Phone Interviews
6	2	Behavioral Interviews- Closing the Interview-Thank You Notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work -Time and Distance
9	3	Tabulation – Bar Graphs – Pie Charts – Line Graphs.

Cycle	Unit	Topics to be covered / Activity to be carried out
10	4	Logical Reasoning (1): Analogies –Arrangement
11	4	-Causes and Effects
12	4	-Family Tree-Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series -
14	5	Code based questions on letters of alphabet
15	5	Syllogism-Statement and Conclusion
3	1	techniques in Group Discussion-Tips for Group Discussion.
8	3	Heights and Distances

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic programs
2	1	1. Create a static web page which defines all text formatting tags of HTML in tabular format .
3	1	2. Create a static webpage using table tags of HTML .
4	2	. 3. Create a webpage using list tags of HTML. .
5	2	. 4. Create a webpage using style sheet. . .
6	2	. 5. Create a webpage using FORMS. .
7	3	. 6. Write a java Script code to generate Fibonacci series. .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	. 7. Write a java Script code to generate paybill. .
9	3	. 8. Write a java Script code to develop a simple Calculator. .
10	4	. 9. Write a java Script code using Math Functions. .
11	4	. 10. Write a java Script code using String Functions.
12	4	.Model practical I
13	5	..Model practical II
14	5	.Model practical III
15	5	Revision

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LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of locations
5	2	Measures of dispersion
6	2	Absolute and Relative measures
7	3	Measures of Skewness: Karl Pearson's

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Bowley's, Kelly's Coefficient of Skewness
9	3	Kurtosis based on Moments
10	4	Correlation: Scatter diagram, Karl Pearson's Coefficient of correlation
11	4	Spearman's rank correlation and concurrent deviation method
12	4	Regression analysis: Simple regression equations.
13	5	Curve fitting by the method of least squares: Straight line
14	5	Second degree equation
15	5	Power curve and Exponential curves

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCS402Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SAMPLE SPACE – EVENTS – DEFINITION OF PROBABILITY, ADDITION
2	1	MULTIPLICATIONS THEOREMS – SIMPLE PROBLEMS.
3	1	CONDITIONAL PROBABILITY – BAYE'S THEOREM (PROOF ONLY).
4	2	CONCEPT OF RANDOM VARIABLE – PROBABILITY MASS FUNCTION PROBABILITY DENSITY FUNCTION
5	2	DISTRIBUTION FUNCTION. MATHEMATICAL EXPECTATION: PROPERTIES OF EXPECTATIONS
6	2	CHEBYCHEV'S INEQUALITY (ONLY THEOREM).
7	3	STANDARD DISTRIBUTIONS: BINOMIAL (MEAN AND VARIANCE) POISSON (MEAN AND VARIANCE)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	AND FITTING OF THESE DISTRIBUTIONS.
9	3	NORMAL DISTRIBUTIONS (CHARACTERISTICS AND AREA PROBLEMS)
10	4	CONCEPT OF SAMPLING DISTRIBUTIONS – STANDARD ERROR – TESTS OF SIGNIFICANCE BASED ON T, CHI – SQUARE
11	4	AND F DISTRIBUTIONS WITH RESPECT OF MEAN, VARIANCE AND CORRELATION COEFFICIENT.
12	4	CHI – SQUARE TEST FOR INDEPENDENCE OF ATTRIBUTES. GOODNESS OF FIT. LARGE SAMPLE TEST BASED ON MEAN AND PROPORTIONS.
13	5	ANALYSIS OF VARIANCE: ONE WAY AND TWO WAY CLASSIFICATIONS.
14	5	BASIC PRINCIPLES OF DESIGN OF EXPERIMENTS: RANDOMIZATION
15	5	REPLICATION AND LOCAL CONTROL – CRD, RBD AND LSD.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**DEVASENA J Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1Purananuru padal no 183,192 1.2Agananuru padal _02,104 1.3Kurunthogai padal 3,40 1.4 Narrinai Padal149,110
2	1	1.5.Igkurununuru _vatgaipathu1-5
3	1	1.6Kalithogai-palaikali 9,11 1.7Paripadal Thimal3pal
4	4	4.1Ilakkiya varalaru
5	4	4.5Kizkanakil Neethi Nolgal
6	3	3.1Ariudami 3.2 Natpo araythl
7	3	3.3Polavinunukam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran 5.1Pattirigaikalil seithi varaithl 5.2 churiki varathal
9	5	Narkanal
10	4	Pathuppatu
11	2	Nadanalvadai1-62
12	2	Nadanalvadai1-62
13	2	Cipanartupadi kadai azuvallagal
14	2	Mathraikanchi
15	2	Mullai patu padarai oyapu

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS305T : CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Java Features of Java Data Types Arrays
2	1	Control Statements Classes Methods Objects
3	1	Overloading methods Overriding methods.
4	2	Packages Importing & Implementing Packages
5	2	Interfaces – Exception Handling.
6	2	Thread : Life Cycle of Thread Creation of Threads Multithreading
7	3	Applet life cycle creating a simple applets Loading and displaying images on applets.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	windows Fundamentals AWT controls
9	3	working with graphics layout managers
10	4	JDBC: JDBC Architecture Types of Drivers Connecting to a Database (MS Access)
11	4	SQL commands select, insert delete update.
12	4	NETWORKING: URL Inet Address TCP/IP Sockets UDP Sockets
13	5	RMI AND BEANS: Introduction to RMI RMI architecture
14	5	Example using RMI
15	5	Introduction to java Beans Properties of beans Simple example using bean.-Revision of Syllabus-Review of Past Year Semester QP

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and execution of Java programs Basic programs in Java
2	1	Logical Programs in Java Programs Based on I/O Statements
3	1	Finding area and Perimeter of a circle. Use Buffered Reader class Programs Based on Buffered Reader class
4	2	Implementing and importing packages
5	2	Implementing Interfaces-Arithmetic Manipulations.
6	2	Exception Handling. Threading & Multi threading
7	3	Simple Programs on Applets Programs on Passing HTML to Applets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Programs Using AWT Controls Create a database for storing and manipulating student information
9	3	Create a database for storing and manipulating student mark list using AWT.
10	4	Write a program to display the IP address of a given host machine
11	4	Implement an application for sending a string from one machine to another using TCP/IP.
12	4	Implement an application for sending a string from one machine to another using UDP Sockets
13	5	Write a program to send in two values to the server program and get back the result calculated using RMI.
14	5	Incorporating Graphics symbol onto Bean box.
15	5	Incorporating circle symbol onto Bean box- Model Practical Exam

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CS407Q : INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction-Internal Concepts: Internet Services – Types of accounts - Media for internet
2	1	ISP – TCP/IP and Connection software – Dial-up Networking – setting up and Internet Connection
3	1	Testing connection – Disconnecting from the Internet . Unit revision
4	2	Contenders: Issues in high-speed Connection -Connecting via ISDN,
5	2	Connecting via ASDN and cable Modem – Intranets – Components of an Intranet
6	2	steps for creating Intranet – Maintenance – Connecting LAN to Internet . Unit revision
7	3	E-mails: Downloading E-Mails – Signatures and Stationery – Web based E-Mail – E-mail task

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Outlook Express – Sending and Receiving Files using Eudora – Outlook Express and Pine – Multiple e-Mail Accounts
9	3	Sending form Letters – Formatting E-mail – E-mail mailing List. Unit revision
10	4	Internet Basics: Introduction to HTML – List
11	4	Creating Table – Linking Document Frames
12	4	Forms -code using forms-– Graphics to HTML Doc. Unit revision
13	5	Java Script:Introduction – Advantage of JAVA Script - JAVA Script Syntax
14	5	Data type – Variable – Array – Operator and Expressions
15	5	Looping Constructor – Function – Dialog Box. Unit revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic codes in Html
2	1	Design a simple web page in html using formatting tags to display your address at the center of the screen.
3	1	Display you're like things and dislike things using Html list.
4	2	Display an image in html with comments.
5	2	Design a web page using anchor tag to display about the important persons in India.
6	2	Use html Frames to divide the screen and load few web pages in a screen.
7	3	Use html Forms to design your Bio-data.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Design menus in Html.
9	3	Design simple Calculator using Java Scripts.
10	4	Use functions in Java script.
11	4	Use strings in Java Script.
12	4	Model practical-1
13	5	Model practical-1
14	5	Model practical-1
15	5	Revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS305T : CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fundamentals of Java Language Basics of languages Introduction to Java Features of Java
2	1	Data Types Arrays Control Statements
3	1	Classes Objects Overloading method Overriding methods unit revision
4	2	Packages -System packages -User defined packages
5	2	Access protection -importing packages -interfaces - Implementing interfaces
6	2	Exception Handling Try,throw catch,throws finally Multhithreading unit revision
7	3	Applets : Applet life cycle – creating simple applets - Loading and displaying images on applets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	- working with graphics AWT : -introduction to AWT -AWT controls
9	3	– windows Fundamentals - layout managers -Sample programs on AWT and applets unit revision
10	4	JDBC jdbc architecture -Connecting to a Database (MS Access)
11	4	– SQL commands -select, insert, delete, update. NETWORKING: Networking Basics-
12	4	URL - Inet Address – TCP/IP Sockets UDP Sockets unit revision
13	5	RMI : Introduction to RMI -RMI architecture - Example using RMI.
14	5	- Example using RMI. Java Beans Introduction to java beans
15	5	properties of java beans Code for java beans unit revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and execution of java programs Basic programs in Java
2	1	Logical programming in java I/O operations
3	1	Area and perimeter of circle Arrays programs
4	2	packages User defined packages
5	2	Interfaces Exception Handling
6	2	Applet AWT programs
7	3	AWT programs

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA Exam
9	3	JDBC code
10	4	jdbc code
11	4	networking basics
12	4	model practical
13	5	TCP/IP program,socket program
14	5	RMI,Beans program
15	5	Model practical

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS306S : FUNDAMENTALS OF ALGORITHMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Criteria, definition of algorithm,structure of an algorithm
2	1	Example binary search.concept, procedure,example. Strassens matrix multiplication,formula, example
3	1	Divide and conquer method general procedure example_maximun and minimum, procedure ,example
4	4	Greedy Method - General Procedure, explanation-optimal ,feasible,constraints
5	4	Greedy Method -Example-O/1 Knapsack problem-Algorithm,Example
6	4	Example problem for O/1 Knapsack Algorithm,Shortest Path Algorithm-Procedure
7	2	Dynamic Programming-Example Travelling Sales Person Problem.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Difference between Greedy and Dynamic Programming,Optimal Solution,Feasible Solutions
9	2	Example for Dynamic Programming-Multistsge-grsphForward Approach,Problem
10	3	General Procedure -Back Tracking,General constraints-Implicit-Explicit -BFS-Example-Representations
11	3	General procedure for Iterative Back Tracking-Example-DFS,Example Graph,Representations.
12	3	General procedure for Iterative Back Tracking-Example-DFS,Example Graph,Representations.
13	3	General procedure for Recursive Back Tracking-Example-Graph Coloring-Example Graph,Representations.
14	5	Graph Coloring Examples- Procedures-Mcoloring-Next Value
15	5	NP-Hard NP-Complete Introduction-classes-Problems-Examples

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ECS408A : COMPUTER GRAPHICS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Computer Graphics, Video Display Devices, Raster Scan System,I/P Devices,
2	1	Random Scan System, Difference Between Raster Scan System and Random Scan System
3	1	Graphics S/W, Output Primitives, Line and Circle Drawing Algorithms
4	2	Attributes of Output Primitives, Line Attributes, Character Attributes
5	2	Color and Gray Scale Style, Area Filling Algorithms, Inquiry Functions,2-D Transformations
6	2	Basic Transformations, Composite Transformations, Other Transformations, Matrix Representation
7	3	2-D Viewing, Window to View Port Co-Ordinate Transformations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Clipping Algorithms, Cohen Sutherland Algorithm, Liang-Barsky Algorithm, NLN Algorithm
9	3	Interactive I/P Methods, Logical Classification of I/P Devices ,Interactive Picture Construction Techniques
10	4	3-D Viewing Concepts, 3-D Display Methods
11	4	Parallel Projection, Perspective Projection
12	4	Depth Cueing, Visible Line and Surface Identification.
13	5	3-D Transformations,3 D-Viewing
14	5	Projection, Viewing Transformations, Depth Buffer (Z-Buffer) method
15	5	A-Buffer method, Implementations of Viewing Operations.

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple java Programs
2	1	Java programs using arrays
3	1	Java program using buffered Reader class
4	2	Importing Package
5	2	Implementing Interface
6	2	Inheritance
7	3	Exception handling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multi-threading
9	3	Loading image onto Applet
10	4	Draw a text onto applet
11	4	Using AWT controls
12	4	Create a database for storing student information
13	5	Create a database and using AWT controls
14	5	Using RMI
15	5	Bean Box

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	, SILAPATHIGARAM ! VAZHAKURAIKATHAI
2	1	MANIMEGALAI ! Manipallavam adaintha kathai
3	4	IYYAMPERUM KAPPIYANGAL
4	4	IYYINJIRU KAPPIYANGAL, CHOZHARKALA KAPPIYANGAL
5	2	SEEVAGA SINTHAMANII
6	5	PANBALAI VAANOLI NIGAZHCHI THOGUPPU VAADIKKAIYALAR SEVAI
7	5	SUTTRULAVAZHIKAATTI KADITHANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	POTHUKATTURAI
9	2	KAMBARAMAYANAM
10	3	PERIYAPURANAM
11	3	RATCHANAYA YAATHRIGAM
12	3	SEERAPURANAM
13	4	KIRITHUVA KAPPIYANGAL
14	4	KIRITHUVA KAPPIYANGAL
15	4	ISLAMIYA KAPPIYANGAL

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURANAANOORU, ---- PAADAL-183, 192. AGANAANOORU,,02,-& 104 KURUNTHOGAI---- 03&40
2	1	NATRINAI-110 & 149 INGURUNOORU------ VEITKAI 10,1 TO 5 KALITHOGAI--------- PAALAIKALI 9 & 11
3	1	PARIPADAL-------- THIRUMAAL
4	3	THIRUKURAL ATHIGARAM ARIVUDAMAI
5	3	THIRUKUAL ATHIGARAM NATPUAARAITHAL, PUALAVI NUNUKAM
6	4	ILAKIYAVARALAARU,: ETTUTHOGAI NOOLGAL
7	4	PATHINEN KIZHKANAKKIL NEETHI NOOLGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN PATHRIGAIGALIL SEITHI VARAITHAL
9	5	SURUKI VARAITHAL, NER KAANAL
10	2	NEDUNAL VAADAI 1-30 LINES
11	2	NEDUNAL VAADAI 31-62 LINES KULIRKAALA VARNANAI
12	2	SIRUPAANAATRU PADAI
13	2	MADURAI KANCHI
14	2	MULLAI PAATTU
15	4	PATHUPAATU NOOLGAL

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LESSON PLAN

Name of the Staff	**Dr. S. Umamageswari**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock interviews/Actual interviews Facing an interview Tele interview
2	1	Drama :Julius Caesar by William Shakespeare Novel:The count of Monte Cristo Description
3	2	Words often confused Seminar skills Drama : Macbeth by William Shakespeare
4	2	Novel:The count of monte cristo Idioms and phrases
5	3	Homonyms and similar words Tele - conference
6	3	Handling customers or clients Receiving visitors
7	3	Drama:Henry lV part 1 - play out a play Novel: The count of monte cristo The use of graphics

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA exam
9	4	Homophones Booking hotel accommodation Making small talk and telling stories
10	4	Drama:As you like it- pattern of love Novel:The count of monte cristo Negotiations
11	5	Group discussion
12	5	Making appointment Cancelling and rescheduling appointment
13	5	Drama:Hamlet - Churchyard Novel:The count of monte cristo Writing review of books
14	0	II CIA exam
15	0	Revision

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	basic html tags
2	1	text tags
3	1	color tags
4	2	effective tags
5	2	Create a static web page which defines all text formatting tags of HTML in tabular format
6	2	Create a static webpage using table tags of HTML
7	3	Create webpage using list tags of HTML.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Apply style sheet in Web page
9	3	Create webpage using FORMS.
10	4	Script code for n numbers of Fibonacci series.
11	4	Script code for employee salary calculation.
12	4	Script code for simple Calculator
13	5	Script Code using Math Functions.
14	5	Script Code using String Functions
15	5	Create webpage using FORMS. in a website

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**VIJAYA SANKAR M Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of location - Mean ,Median, Mode, Harmonic mean
5	2	Geometric mean , Measures of Dispersion- Range and coefficients of range - Quartile Deviation- Mean Deviation
6	2	Standard Deviation - Combined standard Deviation and Coefficients of variation
7	3	Measures of Skewness: Karl Pearson's, Bowley's Coefficients of Skewness.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kelly's Coefficient of Skewness , Percentile and Deciles of Coefficients of Skewness.
9	3	Kurtosis based on Moments (First, Second, Third and Fourth)
10	4	Correlation: Scatter diagram, Karl Pearson's, Spearman's rank.
11	4	Regression Analysis: Simple regression equations.
12	5	Curve fitting by the method of least squares: Straight line
13	5	Curve fitting by the method of least squares: Second degree equation
14	5	Curve fitting by the method of least squares: Power Curve and Exponential Curves.
15	0	Revision and test conducted for unit 4 and 5

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**JCS601 : MINI PROJECT**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Application based on ASP.net
2	1	Simple Applications on Window based Applications
3	1	Simple Applications Using Data Validation Controls
4	2	Developing Application based on Login Controls
5	2	Developing Application based on Web Parts Control
6	2	Developing Application based on Navigation Controls
8	3	Build an ASP.NET with SQL Database

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Build an ASP.NET with Ms-Access Database
10	3	Build an ASP.NET with SQL Database with its functions
11	4	Build an Application using PHP
12	4	Build an PHP with Wampserver
13	5	Developing an Application in PHP
14	5	steps for Document preparation for software Applications
15	5	Tools for Deploying the Software Applications
7	2	Developing Application based on Asp.net Controls

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LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Using Video
2	4	Working of Video
3	4	Working of Video
4	4	Broadcast video standards
5	4	Broadcast video standards
6	4	Integrating computers and television
7	4	Integrating computers and television

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Shooting and Editing Video
9	4	Shooting and Editing Video
10	4	Video tips
11	4	Video tips
12	4	Recording formats
13	4	Recording formats
14	4	Digital Video.
15	4	Digital Video.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**JCS601 : MINI PROJECT**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conforming project title
2	2	discussing how to find user need
3	3	Discussing data collection methods
4	4	How to Analyse the data to find the problem of user and separation as modules
5	5	Feasibility study-needed software to solve problem-determining project size-project duration-experts & professionals needed
6	6	Designing methods to know the flow of process
7	7	Hardware and software needed

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Form designing through software
9	9	Writing codings
10	10	Discussing database connections
11	11	Discussing testing methods
12	12	Review-Checking whether it satisfy user, error free.
13	13	Corrections if needed
14	14	Documentation
15	15	Documentation binding and final project review

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Dr.JAYAPAL J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**ECS512A : DATA COMMUNICATION AND NETWORK**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Networks ; Introduction about Networks - Data Communication and Networks
2	1	Topology and Transmission Mode
3	1	Categories of Networks and Internet works
4	2	functions of the layers – TCP/IP protocol suite
5	2	signals – analog and digital signal – periodic and a periodic signals
6	2	data transmission – data terminal equipment – data circuit terminals equipment – modems.
7	3	guided media – unguided media – transmission impairments – media comparison

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplexing – FDM – TDM – WDM. Error detection and correction – types of errors–detection
9	3	vertical redundancy check (VRC) – longitudinal redundancy check (LRC) – cyclic redundancy check (CRC) – check sum – error correction
10	4	Circuit switching – packet switching – message switching
11	4	networking and internetworking devices
12	4	repeaters – bridges – routers – gateways
13	5	distance vector routing – link state routing
14	5	data link control – line discipline
15	5	flow control – error control.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JAYAPAL J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS613S : COMPUTER ARCHITECTURE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit: General Register and stack Organization
2	1	Instruction Formats-Addressing Modes
3	1	Data Transfer and Manipulation.
4	2	Pipelining: Arithmetic, Instruction
5	2	RISC Pipelining
6	2	Vector Processing.
7	3	Computer Arithmetic: Addition and Subtraction

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Floating Point and Decimal Arithmetic operations.
10	4	Input Output Organization: Peripheral Devices- I/O Interface -
11	4	Asynchronous Data Transfer-Models of Transfer-Priority Interrupt
12	4	Direct Memory Access – I/O Processor.
13	5	Memory Organization: Memory Hierarchy
14	5	Main Memory-Auxiliary Memory –
15	5	Associative Cache and Virtual Memory.
8	3	Matrix Multiplication and Division

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JOHNSON DURAI A.R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition – purpose of database systems – data abstraction – data models
2	1	instances and schemes – data independence – database manager
3	1	database administrator – database users – overall system structure.
4	2	Entity Relationship Model: Entities and entity sets – relationships and relationship sets – attributes – mapping constraints
5	2	keys –E-R diagram – reducing E-R diagrams to tables
6	2	generalization – aggregation
7	3	Relational Model: the relational algebra

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	The tuple relational calculus
9	3	The domain relational calculus.
10	4	First Normal Form – Second Normal Form
11	4	Third Normal Form – Boyce – Codd normal form
12	4	Fourth Normal Form.
13	5	DDL,DML,DCL operations – integrity constraints – string functions – number functions – data arithmetic – selecting distinct values – working with null values
14	5	pseudo columns – grouping and ordering data – sub queries – joins – union ,intersect & minus – indexes – clusters – views
15	5	sequences – synonym – users, roles and privileges – grant and revoke permission – locks.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.JOHNSON DURAI A.R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS615S : SOFTWARE ENGINEERING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Software Engineering and Models: Introduction -Characteristics of Software-Software Myths-Process Models: The Waterfall Model.
2	1	Incremental Process Models: The Incremental Model ,The RAD Model .
3	1	Evolutionary Process Models : Prototyping ,The Spiral Model ,The Concurrent Development Model.
4	2	Requirement Engineering: Requirement Engineering Tasks - Initiating the Requirements Engineering Process- Eliciting Requirements.
5	2	Requirement Engineering: Initiating the Requirements Engineering Process- Eliciting Requirements.
6	2	Requirement Engineering: Eliciting Requirements.
7	3	Building Analysis Model: Requirement Analysis - Data Modeling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Building Analysis Model: Flow Oriented Modeling – Class Based Modeling
9	3	Building Analysis Model: Creating a Behavioral Model.
10	4	Testing: Testing strategies: Test Strategies For Conventional Software- Validation Testing.
11	4	Testing: Testing strategies: System Testing –White Box Testing – Basic Path
12	4	Testing: Testing strategies: Control Structure – Black Box Testing.
13	5	Project Management: The Management Spectrum
14	5	Project Management:The People – The Product, The Process.
15	5	Project Management: Formal Technical Reviews.

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition and Introduction to Multimedia Introduction to Making Multimedia:
2	1	Needs of Multimedia TEXT: The power of meaning About fonts and faces
3	1	Using text in multimedia Computers and Text
4	1	Font editing and Design tools Hypermedia and Hypertext.
5	2	SOUND: The power of sound Multimedia system sounds MIDI versus Digital Audio
6	2	Digital Audio Making MIDI audio
7	2	Audio, File formats Adding sound to your Multimedia project IMAGES: Making still Images

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Color Image file formats.
9	4	VIDEO: Using Video Working of Video
10	4	Broadcast video standards Integrating computers and television
11	4	Shooting and Editing Video – Video tips Recording formats
12	4	Digital Video.
13	5	PLANNING AND COSTING: Project planning
14	5	Estimating RFPs and Bid Proposals Designing Producing.
15	5	Designing Producing.

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	Simple Programs
3	1	String Functions
4	1	Arrays
5	1	Functions
6	1	Create a Home Page using PHP
7	1	Create a Home Page using PHP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Form creation using POST method
9	1	Database Operations
10	1	Database Operations
11	1	Login form
12	1	Login form
13	1	Student mark list creation
14	1	Student mark list creation
15	1	Electricity bill preparation.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PHP program based on Commands
2	1	Simple PHP programs on Working with Variables and Constant
3	1	Simple programs on String functions in PHP
4	2	Simple programs on Array functions in PHP
5	2	Simple programs on Looping Arrays in PHP
6	2	Creating Simple Programs based on functions
7	3	Simple programs on using Control statements in PHP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Home Page using PHP
9	3	To create and use forms in PHP
10	4	Program to implement a Cookie Concept in PHP
11	4	Program to implement a Session Concept in PHP
12	4	Program for creating simple MYSOL Database Table
13	5	Creating Table with basic MYSQL Queries
14	5	E Mail list creation using MYSQL
15	5	Student mark list creation

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP505 : PRACTICAL - ORACLE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SQL queries :create table, insert value,delete values,row,col,drop table,commit
2	1	Update,alter,modify table, view table
3	2	Aggregate ,max,min,count
4	2	Simple Queries using DML,DDL
5	3	Snap Shots,Set Operations
6	3	PL/SQL Block,Writing of Programs using SQL PL/SQL
7	4	Student details , Employee Table Table Creation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Integrity Constraints_ForeignPrimary,Null ,Unique Keys
9	5	Special Operators-like,In,Between and,is Null Set Operations
10	6	Procedures, Functions
11	7	PL/SQL Basic Programs
12	8	Addition of 2nos using PL/SQL
13	9	Using Comments perform Insertion,Updation
14	10	PL/SQL Sample Programs
15	11	Database Connection with PL/SQL

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Students Mark Sheet, Time and Date,
2	2	Odd or even, greatest no, swapping using Console
3	2	Voter Id,Arithmetic Operations
4	3	EB Bill Generation
5	4	Master Page Creation
6	5	Login Page Creation
7	6	Console,Form Design,Button,Label Creation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	7	Multiple From Generation
9	8	Database Creation using Excel
10	9	Color Chooser using Standard Colors
11	10	Notepad Applications,Button,Pannel
12	11	Check Box,List Box,Combo Box Properties
13	11	Master Page Creation
14	12	Chatting Application
15	13	Registration Validation,Sample Project Assigned

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP505 : PRACTICAL - ORACLE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Create Username and Password Create Query,Insert Query,Select Query
2	1	Update Alter
3	1	Truncate Drop
4	2	Queries using two relations
5	2	Aggregate Functions
6	2	Set operations
7	3	Views

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Snapshots
9	3	Nested queries
10	4	PL/SQL block
11	4	Functions
12	4	Procedures
13	5	Subprograms and package
14	5	Triggers
15	5	Cursors

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS510S : DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction to .Net Supported Languages, Keywords Identifier
2	2	Data Types Value Types
3	2	Reference Type
4	2	Control Structures
5	2	Methods
6	2	Interface Delegates
7	5	Introduction to ADO.NET

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Types of Data Access Architecture
9	5	Connection Oriented Data Access Architecture
10	5	Disconnected Data Access Architecture
11	5	Difference between Connected and Disconnected Data Access Architecture
12	5	Connection class Command class
13	5	Datareader Class
14	5	DataAdapter Class Dataset Class
15	5	Gridview Control with example

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**ECS512A : DATA COMMUNICATION AND NETWORK**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to Transmission Media
2	3	Guided Media(twisted Pair)
3	3	Guided Media(Coaxial)
4	3	Guided Media(Fiber Optical)
5	3	Unguided Media(Radio Waves)
6	3	Microwaves
7	3	Infrared

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Types of errors
9	3	Error detection Parity bit method
10	3	Redundancy error detection method
11	3	Checksum error detection method
12	3	Multiplexing
13	3	Frequency division multiplexing
14	3	Wave division multiplexing
15	3	Time division multiplexing

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sample Program in Console Application
2	1	Sample Program in Windows Application
3	1	Chess Board Program
4	2	Database Connection
5	2	Login Program using MS Access
6	2	EB bill Calculation using MS Access
7	3	Simple website creation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Creating master page and adding master page into the website
9	4	Create a website using all web controls
10	4	Create a website using login controls
11	4	Create a website using validation controls
12	4	Create a website using data
13	5	Create a website with ms- access database
14	5	Create a website using gridview control
15	5	Create a website for college

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to html HTML tags Scripting language Introduction to javascript CSS in javascript with examples
2	1	Introduction to server side scripting language introduction to PHP Create user development environment Web server Database server
3	1	Mixing HTML and PHP Command line Working with variables Creating constants PHP internal data types
4	2	Operators String functions Converting to and from strings
5	2	formatting text string Introduction to an array Types of an array Modifying data in an array
6	2	Deleting an array elements Arrays with loops PHP array function
7	3	Sorting an array Introduction to function Passing argument to a function Passing array to functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Passing by reference Using default argument Returning data from function Nesting function
9	3	Data input and output functions Flow of control statements Comma operator
10	4	Setting up web pages to communication with PHP Handling text field
11	4	Checkbox Radio button Password controls List boxes
12	4	Buttons Hidden controls File upload
13	5	Introduction to MySQL Creating MySQL database Creating a new table Putting data into the new database
14	5	Accessing the databases in PHP Updating database Inserting new data items into database Deleting Records
15	5	Creating multiple tables Sorting data in a table Complete Example

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple programs
2	1	Program using Variables
3	2	Program using string functions
4	2	Programs using arrays
5	2	sorting an Array elements
6	3	Functions
7	3	function passing by reference

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Nested function
9	3	program using control statements
10	4	Create a home page using PHP Form creation using POST and GET methods
11	4	Implement GUI components in PHP Login form
12	4	Student mark list creation File upload
13	5	Simple program working with MySQL
14	5	Program to insert and update records in database Electricity bill creation
15	5	Sorting data in database

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS510S : DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Dot Net
2	1	Dot Net Framework –CLR-MSIL-JIT
3	1	Managed Code-Benefits of Dot Net.
4	2	C#.Net: Data types-Variables-Arrays
5	2	Properties-Control structures-
6	2	Namespace-Methods-Interface-Delegation.
7	3	Asp.net: Difference between Asp and Asp.net-Architecture of Asp.net-Execution model

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Architecture of Asp.net-Execution model.
9	3	Difference between Code Behind and aspx file-Implementation of simple web application.
10	4	Controls in C#: Button-Textbox
11	4	Timer-PictureBox-RadioButton-Menu.
12	4	Web Controls: AdRotator-Validation-Calendar .
13	5	ADO.NET: ADO.Net Objects Model
14	5	Architecture of ADO.NET.
15	5	Working with Grid control

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Console Application Basic Programs
2	1	Windows Application
3	1	Student Mark Sheet Electricity Bill Calculator Custom Image
4	2	Login Controls
5	2	Login controls Using MS Access Database
6	2	Notepad Application
7	3	Telephone Directory Using MS Access

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Splash Screen
9	3	Drop Down list Combo Box Radio Button Chess Box
10	4	Student Mark sheet MS Access
11	4	Ad Rotator Database application for student mark list processing using validation control
12	4	ASP LOGIN ASP BIO DATA
13	5	Create an application to sending a request from one page to another using session
14	5	Create a simple website for an organization using Master Page
15	5	Telephone Directory to store phone number, Customer name and Customer address and display it with Grid View control.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS511S : OPERATING SYSTEMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Operating systems - Definition of operating systems
2	1	booting - Kernel - History of operating system
3	1	Operating systems functions - file system - Disk Space Allocation Method
4	2	Process Management - Different states of Process
5	2	PCB Chain in Operating Systems - Operations on Process
6	2	Deadlock - Strategies of Deadlock - Deadlock Prerequisities
7	3	Memory Management - Real Memory Management- Contiguous and Non - Contiguous Management

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Memory management - Real and virtual management
9	4	Graphical User Interface
10	4	Virus, Attacks
11	4	Authentication - Encryption - Security and Protection
12	5	Unix - Case study and File system
13	5	Basic Commands in Unix - Files and Directories in Unix
14	1	Revision on Unit I, II and III
15	4	Revision on Unit IV and V

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS613S : COMPUTER ARCHITECTURE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit - General Register and Stack Organisation
2	1	Instruction Formats-Addressing Modes
3	1	Data Transfer and Manipulation
4	2	Pipelining: Arithmetic
5	2	Instruction and RISC Pipelining
6	2	Vector Processing
7	3	Computer Arithmetic: Addition and Subtraction

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplication and division Algorithms
9	3	Floating Point and Decimal Arithmetic operations
10	4	Input Output Organization: Peripheral Devices- I/O Interface
11	4	Asynchronous Data Transfer-Models of Transfer-Priority Interrupt
12	4	Direct Memory Access – I/O Processor
13	5	Memory Organization: Memory Hierarchy
14	5	Main Memory-Auxiliary Memory
15	5	Associative Cache and Virtual Memory.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	RELATION MODEL
2	3	PROCEDURAL MODEL, NON PROCEDURAL MODEL
3	3	RATIONAL ALGEBRA
4	3	SELECTION OPERATION ,PROJECTION OPERATION
5	3	CARTESIAN PRODUCT OPERATION , INTERSECTION OPERATION
6	3	UNION OPERATION ,ASSIGNMENT OPERATION
7	3	RELATIONAL CALCULUS , DOMAIN RELATIONAL CALCULUS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	NORMALIZATION INTRODUCTION
9	4	NORMALIZATION EXAMPLE
10	4	TYPES OF NORMALIZATION
11	4	,First Normal Form
12	4	Second Normal Form
13	4	THIRD NORMAL FORM
14	4	Boyce – Codd normal form -
15	4	Fourth Normal Form

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS615S : SOFTWARE ENGINEERING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Building Analysis Model:
2	3	Requirement Analysis
3	3	Data Modeling
4	3	Flow Oriented Modeling
5	3	Flow Oriented Modeling types
6	3	Class Based Modeling
7	3	Class Based Modeling and its types

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Creating a Behavioral Model and its types
9	3	data Modeling in software industries
10	5	Project Management:
11	5	The Management Spectrum
12	5	The People management the software –
13	5	The Product, The Process
14	5	Formal Technical Reviews.
15	5	design models

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS511S : OPERATING SYSTEMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to Operating System-types of managements-examples
2	3	Types of memory management-Real memory management-Virtual memory management- Contiguous -non contiguous-allocation-single partition memory-fixed partition-memory management-
3	3	Variable partition memory management-examples-best fit method-first fit-worst fit methods with examples
4	3	Problems with best fit-worst fit and worst fit methods
5	3	Revision with semester question papers
6	3	Relocation and AT,sharing,protection and evaluation of variable partition method-comparison of fixed and variable partition methods
7	3	Non-contiguous Paging concept with examples-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Segmentation concept with examples-
9	3	combined with paging and segmentation in non contiguous allocation-
10	3	problems with memory management
11	3	Non continuous memory allocation-
12	3	Paging concept with examples
13	3	Segmentation with examples
14	3	Virtual memory management with examples
15	3	page replacement policies

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Multimedia: Definition and Introduction to Multimedia.
2	1	Introduction to Making Multimedia: Needs of Multimedia
3	1	TEXT: The power of meaning – About fonts and faces – Using text in multimedia
4	1	Computers and Text – Font editing and Design tools
5	1	Hypermedia and Hypertext
6	4	Video: Using Video – Working of Video
7	4	Broadcast video standards – Integrating computers and television

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Shooting and Editing Video
9	4	Video tips – Recording formats
10	4	Digital Video
11	5	PLANNING AND COSTING: Project planning
12	5	Estimating
13	5	RFPs and Bid Proposals
14	5	Designing
15	5	Producing-revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUN BENEDICT A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	DDL commands, DML commands, Simple queries using DDL and DML commands
2	5	Integrity constraints, Aggregate functions,
3	5	Number functions , String functions, data Arithmetic, selecting distinct values, working with null values,Pseudo columns, grouping and ordering data
4	5	union ,intersect & minus – indexes – clusters – views – sequences – synonym
5	5	users, roles and privileges – grant and revoke permission – locks.
6	1	Definition – purpose of database systems – data abstraction
7	1	data models – instances and schemes – data independence – database manager –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	database administrator – database users – overall system structure.
9	2	Entities and entity sets – relationships and relationship sets
10	2	– attributes – mapping constraints – keys –E-R diagram
11	2	reducing E-R diagrams to tables – generalization – aggregation.
12	4	First Normal Form – Second Normal Form –
13	4	Third Normal Form
14	4	Boyce – Codd normal form
15	4	Fourth Normal Form.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUN BENEDICT A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Creating development Environment Mixing Html and PHP command line php Working with variables
2	1	Creating Constants PHP data types Php operators Flow control
3	2	String Functions Converting to and from Strings Formatting Text Strings
4	2	Modifying Data in an Array Deleting Array elements Arrays with loops
5	2	Php Array Functions Sorting Arrays
6	3	Passing Functions Passing Arrays to Functions Passing by Reference
7	3	Using Default Arguments Returning Data from functions Nesting functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data Input and output functions flow of control
9	3	Control Structures Switch, Break and Continue Statement Go to Statement Comma operator
10	4	Setting up web pages to communication with PHP handling text fields check box Radio button
11	4	Password controls List boxes buttons Hidden controls File Upload
12	5	Creating MYSQL database Creating a new table
13	5	Putting data inot the new database Accessing the Databases in PHP Updating Databases
14	5	Inserting new data items into a Database Deleting Records
15	5	Creating new tables Creating new Database Sorting data

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS615S : SOFTWARE ENGINEERING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Requirement Engineering: Requirement Engineering Tasks Inception Elicitation. Elaboration.
2	2	Negotiation. Specification. Validation. Requirement management.
3	2	Initiating the Requirements Engineering Process Identifying Stakeholders Recognizing Multiple Viewpoints Working toward Collaboration Asking the First Questions
4	2	Eliciting Requirements Collaborative Requirements Gathering Quality Function Deployment
5	2	Usage Scenarios Elicitation Work Products
6	3	Requirements Analysis Overall Objectives and Philosophy Analysis Rules of Thumb Domain Analysis Requirements Modeling Approaches
7	3	Data Modeling Concepts Data Objects Data Attributes Relationships

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Class-Based Modeling Identifying Analysis Classes Specifying Attributes Defining Operations 171 Class-Responsibility-Collaborator (CRC) Modeling Associations and Dependencies
9	3	Flow-Oriented Modeling Creating a Data Flow Model Creating a Control Flow Model The Control Specification The Process Specification
10	3	Creating a Behavioral Model Identifying Events with the Use Case State Representations
11	5	Formal Technical Reviews Informal Reviews
12	5	The Review Meeting
13	5	Review Reporting and Record Keeping
14	5	Review Guidelines
15	5	Sample-Driven Reviews

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to .NET working in visual studio
2	1	console application
3	1	windows application
4	2	lab programs
5	2	Database connectivity
6	2	Syllabus programs
7	3	Eb bill calculation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Database connection
9	3	Lab programs
10	4	validation control
11	4	Web page development
12	4	Lab program
13	5	Lab program
14	5	website creation
15	5	web based code web forms

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**JCS601 : MINI PROJECT**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Topic conformed
2	1	Design of the Problem
3	2	Front Page Design Completed
4	2	DataBase Creation
5	3	Master Page Creation
6	3	Database Connections with Excel
7	4	Forms Link .Pictures Link

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Documentation Work
9	5	Documentation Work
10	5	Modules Test
11	6	Sample Screen Shots
12	7	Chapters Correction
13	8	Chapters Correction
14	9	Chapters Correction
15	10	Run with Sample Data

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP505 : PRACTICAL - ORACLE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SQL queries :create table, insert value,delete values,row,col,drop table,commit
2	1	Update,alter,modify table, view table
3	2	Aggregate ,max,min,count
4	2	Simple Queries using DML,DDL
5	3	Snap Shots,Set Operations
6	3	PL/SQL Block,Writing of Programs using SQL PL/SQL
7	4	Student details , Employee Table Table Creation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Integrity Constraints_ForeignPrimary,Null ,Unique Keys
9	5	Special Operators-like,In,Between and,is Null Set Operations
10	6	Procedures, Functions
11	7	PL/SQL Basic Programs
12	8	Addition of 2nos using PL/SQL
13	9	Using Comments perform Insertion,Updation
14	10	PL/SQL Sample Programs
15	11	Database Connection with PL/SQL

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**ECS512A : DATA COMMUNICATION AND NETWORK**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction,Application of DCN, Criteria of DCN, Components_sender, receiver, Message,Medium
2	1	Categories of Network,Modem, Transmission Medium,Signals,Topology,
3	1	OSI Reference Model,Layers of network, Functions of OSI layers,,DCE- DTE,Modems
4	2	Signals-Digital ,Analog Signal,Transmission Impairments,Comparisons,DTE-DCE Intefaces
5	2	Transmission Medium-Guided,Un-Guided,TDM,FDM,WDM
6	2	Single Bit Error, Burst Error,Error Detection,Correction methods.Problem
7	3	Switch Introduction, Types of Switching

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Open Closed circuit Switching,TSI,TDM
9	3	Space and Time Division Switching.
10	4	Networking Internetworking Concepts
11	4	Routers Routing Algorithm Bridges-Simple Bridges, Working
12	4	Dijkstra's Algorithm, Flow Control-Introduction
14	5	Line Decipline-ENQ/ACK,POLL/SELECT
14	5	Stop-and -Wait,Sliding Window Protols-
15	5	Sliding Window ARQ-Go-Back-N ARQ.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP506S : PRACTICAL - DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Students Mark Sheet, Time and Date,
2	2	Odd or even, greatest no, swapping using Console
3	2	Voter Id,Arithmetic Operations
4	3	EB Bill Generation
5	4	Master Page Creation
6	5	Login Page Creation
7	6	Console,Form Design,Button,Label Creation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	7	Multiple From Generation
9	8	Database Creation using Excel
10	9	Color Chooser using Standard Colors
11	10	Notepad Applications,Button,Pannel
12	11	Check Box,List Box,Combo Box Properties
13	11	Master Page Creation
14	12	Chatting Application
15	13	Registration Validation,Sample Project Assigned

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS613S : COMPUTER ARCHITECTURE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central Processing Unit.Component OF CPU,General Register Organization
2	1	Stack Organization,Register Stack,Memory Stack
3	1	Addressing Modes,Instruction Formats,Data Transfer abd Manipulation Instructions
4	2	Piplining-Introduction,Arithmetic Pipeline,Instruction Cycle
5	2	Instruction Pipeline,Difficulties of Instruction Pipeline
6	2	RISC Pipeline,SIMD,Array Processor
7	3	Computer Arithmetic,Addition and Subttraction,Hardware Implementation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Multiplication Hardware Implementation,Algorithm,Booth Multiplication Algorithm
9	3	Floating Point and Decimal Arithmetic Operations
10	4	I/O Organizations,Peripheral Devices
11	4	Asynchronous Data Transfer,Modes of Transfer
12	4	Priority Intruupt,DMA,iI/O Processor
13	5	Memory Organization,Memory Hierarchy
14	5	Main Memory,Auxillary Memory
15	5	Associative,Cache and Virtual Memory

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	HTML Tags
2	1	Text Tags
3	2	Table Tags
4	2	Hyper-Links
5	3	Frames
6	3	Input Button
7	4	Students Mark List

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Telephone Directory
9	6	Invoice Bill
10	7	Multi Frames
11	7	Redirect the user to Different Pages
12	8	Display Data with WebGrid
13	9	Display your Database using Charts
14	10	Header and Footer
15	11	Sort , Filter Lists

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS509 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to Relational DataBase Management System. Introduction to Relational Algebra
2	3	Relational Algebra Operations(Select,Project,Union)
3	3	Relational Algebra Operation (Set Difference,Cartesian Project,Rename)
4	3	Queries using relational algebra
5	3	Tuple Relational Calculus
6	3	Domain Relational Calculus
7	3	Examples for domain relational calculus and tuple relational calculus

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction to normalization
9	4	First normal form
10	4	Second normal form
11	4	Examples
12	4	Third Normal form
13	4	Boyce codd normal form
14	4	Examples
15	4	Fourth normal form

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to html HTML tags Scripting language Introduction to javascript CSS in javascript with examples
2	1	Introduction to server side scripting language introduction to PHP Create user development environment Web server Database server
3	1	Mixing HTML and PHP Command line Working with variables Creating constants PHP internal data types
4	2	Operators String functions Converting to and from strings
5	2	formatting text string Introduction to an array Types of an array Modifying data in an array
6	2	Deleting an array elements Arrays with loops PHP array function
7	3	Sorting an array Introduction to function Passing argument to a function Passing array to functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Passing by reference Using default argument Returning data from function Nesting function
9	3	Data input and output functions Flow of control statements Comma operator
10	4	Setting up web pages to communication with PHP Handling text field
11	4	Checkbox Radio button Password controls List boxes
12	4	Buttons Hidden controls File upload
13	5	Introduction to MySQL Creating MySQL database Creating a new table Putting data into the new database
14	5	Accessing the databases in PHP Updating database Inserting new data items into database Deleting Records
15	5	Creating multiple tables Sorting data in a table Complete Example

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS615S : SOFTWARE ENGINEERING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Software Engineering and Models: Definition - Characteristics of Software
2	1	Software Myths-Process Models: The Waterfall Model- Incremental Process Models: The Incremental Model ,The RAD Model .
3	1	Evolutionary Process Models : Prototyping ,The Spiral Model ,The Concurrent Development Model.
4	2	Requirement Engineering: Requirement Engineering Tasks.
5	2	Initiating the Requirements Engineering Process- Eliciting Requirements.
6	3	Building Analysis Model: Requirement Analysis .
7	3	Data Modeling – Flow Oriented Modeling .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Class Based Modeling.
9	3	Creating a Behavioral Model.
10	4	Testing: Testing strategies: Test Strategies For Conventional Software.
11	4	Validation Testing – System Testing.
12	4	White Box Testing – Basic Path- Control Structure – Black Box Testing.
13	5	Project Management: The Management Spectrum.
14	5	The People – The Product, The Process -The Project.
15	5	Formal Technical Reviews (FTP)

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CS511S : OPERATING SYSTEMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Operating System Definition, Booting ,Kernel
2	1	Functions of Operating System,History of Operating System
3	2	Process Management,Context Switching,Process States,Diagram,PCB,PCB Chain,Levels of Scheduling
4	2	Short term scheduling, Inter process communication, mutual exclusion, critical region,solutions
5	2	Deadlock,Deadlock prerequisites, deadlock methods, ignore,deduct,prevent,avoid,recover from deadlock
6	3	memory management,introduction, types, single contiguous memory management,Fixed partition memory management
7	3	variable partition management,Paging,Segmentation,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	virtual memory management,Page replacement policies
9	4	Graphical user interface,Components of GUI
10	4	Requirements of GUI,security threats, attacks,virus,worms
11	4	Security design principles, Authentication,Encryption
12	4	Protection Mechanism
13	5	Unix Introduction, Architecture,File System
14	5	Different Types of Files, Inode, Unix Directories and Files
15	5	Basic Commands i Unix, Revision For all the units and question papa er discussion.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CSP607S : PRACTICAL - OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple Programs
2	1	Program using variables
3	2	Program using string functions
4	2	Program using Arrays
5	2	Sorting an array elements
6	3	Functions
7	3	Function passing by reference

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Nested Function
9	3	Program using Control Statements
10	4	Create a Home Page using PHP
11	4	Implement GUI components in PHP Login form
12	4	Student mark list creation file upload
13	5	Simple program working with MySQL
14	5	Program to insert and update records in database Electricity bill creation
15	5	Sorting data in database

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**JCS601 : MINI PROJECT**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	FORMAT FOR PREPARING PROJECT REPORT
2	1	FORMAT FOR PREPARING PROJECT REPORT
3	1	Arrangement of contents
4	2	Arrangement of contents
5	2	1. Title Page
6	2	2. Bonafide Certificate
7	3	3. Acknowledgement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	4. Table of contents
9	3	5. Abstract
10	4	6. Chapters of the Report
11	4	7. References
12	4	8. Appendices
13	5	SOURCE CODE
14	5	PROJECT OUTPUT
15	5	DOCUMENTATION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	INTRODUCTION SOUND
2	2	The power of sound
3	2	Multimedia system sounds
4	2	MIDI versus Digital Audio
5	2	Digital Audio
6	2	Making MIDI audio
7	2	Audio

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	File formats
9	2	Sound Clip
10	2	Drag and drop the video file
11	2	Digital Audio Concepts
12	2	Audio Clips Audio Files
13	2	Text Materials. GIF s and Other Forms of Animation
14	2	Photographs and Other Still Images. Video Presentations.
15	2	Adding sound to your Multimedia project.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**ECS616A : MULTIMEDIA**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	IMAGES: Making still Images
2	3	Colors in Multimedia
3	3	Image File Formats in Multimedia
4	3	ANIMATION: The Power of Motion
5	3	Principles of Animation
6	3	Making animations that works.
7	3	Graphics Effects in Multimedia

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	PLANNING AND COSTING in Animation
9	5	Project planning in Animation and Graphics in Multimedia
10	5	Estimating in Animation and Graphics in Multimedia
11	5	RFPs in Animation and Graphics in Multimedia
12	5	Bid Proposals in Animation and Graphics in Multimedia
13	5	Designing in Animation and Graphics in Multimedia
14	5	Producing in Animation and Graphics in Multimedia
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**5**
Subject	**CSP505 : PRACTICAL - ORACLE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION -BASIC PROGRAMS
2	1	COMMANDS IN SQL
3	1	OPERATION IN RDBMS
4	2	DATABASE CONNECTION
5	2	CREATE TABLE
6	2	INSERT TABLE
7	3	UPDATE TABLE

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	DELETE VALUES IN TABLE
9	3	COMMANDS IN SQL
10	4	COMMAND BASED CODING
11	4	INSERT TABLE
12	4	DELETE VALUES IN TABLE
13	5	OLED CONNECTION
14	5	ODBC CONNECTION
15	5	DATA BASE MODEL DESIGN

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**6**
Subject	**CS614S : OPEN SOURCE TECHNOLOGIES - PHP**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	INTRODUCTION about php in web design
2	4	READING DATA IN WEB PAGES
3	4	creating data in web pages
4	4	Setting up web pages
5	4	communication with PHP-
6	4	Handling Text Fields
7	4	creating Checkbox and make use on it

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	creating Radio button-
9	4	making a Password Controls
10	4	creating Password Controls
11	4	creating List boxes-
12	4	creating Buttons
13	4	creating Hidden Control –
14	4	File Upload.
15	4	file save upload and views

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger.
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore
12	4	Elocution
13	5	Description Narration
14	2	II CIA
15	5	Paragraph Writing

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling Quiz game
3	2	Seminar
4	2	Debate Group Discussion
5	3	Book Review
6	3	Film Review
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Speech on Current Events
9	4	Welcome Address
10	4	Vote of Thanks Report Writing
11	5	Narrating Dreams
12	5	Narrating Ambition
13	5	Narrating Ambition
14	0	II CIA
15	0	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHNBOSCO A Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Marabu kavithaigal -Thiruvarutpa-Eramalingavallalar Magakavi Barathiyarin- Baratha Desam
2	1	Barathidasanin Ulagam unnudaiyathu Kavimaniyin Aasiya jothi-Buhttharin Arivurai
3	1	1.Kaviyarasu Kannadasanin Eyasukaaviyam Uothsarippillai Uvamai
4	3	Elakkiya Varalaru-20am Nutrandu Kavijarkal Sirukathaiyin Thotramum Valarchium
5	4	Sirukathaigal-Kathavu,Ki.Erajanaarayananin Kathavu,Kudumbaththil Oru nabar
6	5	Mozhiththiran -Vallotru migum migaa Edangal
7	2	Abdhul Raguman-Aalabanai Mu Methaa-Thesappithavukku theruppadaganin Anjali Thamizhachi-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	????????????? - 2 ?? ?????????? –???????????????? ????????????? ??????
9	2	????????????? –????????? ??????????? –??????????????
10	4	??????? –??????
11	4	???????-???????
12	2	????????????? ???????? –???????? ????????
13	3	?????????????- ?????????????? ????????? ??????????
14	3	?????????????-??????????? ???????????
15	4	???????-????????????

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**18SMT202 : ALLIED STATISTICS - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DISCRETE DISTRIBUTIONS: BINOMIAL DISTRIBUTION DERIVATIONS OF MEAN, VARIANCE AND MOMENT GENERATION FUNCTIONS
2	1	POISSON DISTRIBUTION DERIVATIONS OF MEAN, VARIANCE AND MOMENT GENERATION FUNCTIONS
3	1	GEOMETRIC DISTRIBUTION DERIVATIONS OF MEAN, VARIANCE AND MOMENT GENERATION FUNCTIONS
4	2	CONTINUOUS DISTRIBUTIONS: UNIFORM (MEAN, VARIANCE AND M. G. F.)
5	2	EXPONENTIAL (MEAN, VARIANCE AND M. G. F.) NORMAL DISTRIBUTIONS (M. G. F., CHARACTERISTICS AND AREA PROBLEMS)
6	2	SAMPLING DISTRIBUTIONS: STUDENT'S T, F AND ?2 DISTRIBUTIONS (DERIVATIONS ONLY) AND THEIR RELATIONSHIPS
7	3	TESTS OF SIGNIFICANCE (SMALL SAMPLES) BASED ON T DISTRIBUTIONS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	F DISTRIBUTIONS WITH RESPECT TO MEAN, VARIANCE AND CORRELATION COEFFICIENT
9	3	CHI–SQUARE DISTRIBUTION: TEST FOR INDEPENDENCE OF ATTRIBUTES
10	4	TESTS OF SIGNIFICANCE (LARGE SAMPLES)
11	4	PROPORTION, MEAN, STANDARD DEVIATION
12	4	CORRELATION COEFFICIENT
13	5	ANALYSIS OF VARIANCE: ONE WAY AND TWO WAY CLASSIFICATIONS
14	5	DESIGN OF EXPERIMENTS: CRD AND RBD
15	5	DESIGN OF EXPERIMENTS: LSD

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**18SMT101 : ALLIED STATISTICS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Measures of Locations
2	1	Measures of Dispersion
3	1	Skewness and Kurtosis.
4	2	Probability: Basic definitions – Axiomatic approach to Probability – Basic theorems on Probability
5	2	Addition theorem on probability and related problems – Conditional probability Multiplication theorem of probability and related problems
6	2	Independent events – Pair wise Independent events (definition only) – Baye's theorem and related problems.
7	3	Random Variable – Distribution function and their properties - Discrete random Variable– Probability mass function and simple problems

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Continuous random variable – Probability density function and simple problems – Two dimensional random variables
9	3	Joint probability mass function, Joint probability density function and simple problems.
10	4	Mathematical Expectations: Properties of Expectations – Variance, Co-variance and their properties.
11	4	Moment generating function – Characteristics function - Cumulants
12	4	Chebychev's inequality (only theorem)
13	5	Correlation: Scatter diagram, Karl Pearson's Coefficient of correlation
14	5	Spearman's rank correlation - Partial and Multiple correlations (3 variables only).
15	5	Regression analysis: Simple regression equations.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**18SMP201 : ALLIED STATISTICS - PRACTICAL**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MEASURES OF LOCATION
2	1	MEASURES OF DISPERSION
3	1	SKEWNESS AND KURTOSIS.
4	2	CORRELATION: KARL PEARSON'S COEFFICIENT OF CORRELATION,
5	2	SPEARMAN'S RANK CORRELATION. REGRESSION ANALYSIS
6	2	SIMPLE REGRESSION EQUATIONS.
7	3	TESTS OF SIGNIFICANCE (SMALL SAMPLES) BASED ON T, F AND CHI –SQUARE DISTRIBUTIONS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	RESPECT TO MEAN AND VARIANCE. TEST FOR INDEPENDENCE OF ATTRIBUTES. FITTING OF BINOMIAL, POISSON
9	3	NORMAL DISTRIBUTIONS (AREA METHOD ONLY) AND TEST FOR GOODNESS OF FIT.
10	4	TESTS OF SIGNIFICANCE (LARGE SAMPLES)
11	4	TESTS OF SIGNIFICANCE BASED ON MEAN
12	4	PROPORTIONS.
13	5	ANALYSIS OF VARIANCE: ONE WAY AND
14	5	TWO WAY CLASSIFICATIONS.
15	5	DESIGN OF EXPERIMENTS: CRD, RBD AND LSD.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. E. Ruby Violet Rani**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**VE101T : VALUE EDUCATION**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valurs
2	1	Source
3	1	Erosion of value
4	2	Learning
5	2	Theories
6	2	Continued
7	3	Memory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stages of memory
9	3	Modelling
10	4	Emotions
11	4	Theories
12	4	Pleasant emotions
13	5	Intelligence
14	5	Determinants
15	5	Revision

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Vallalar - Thiruvarutpaa 1.2. Barathiyar - Barathadesam
2	1	1.3. Barathidasan - Ulagam unnudaiyathu 1.4. Kavimani - Aaciyajothi
3	1	1.5. Kannadasan - Utharimainthan
4	3	3.1. Irupadam Nootrandu kavinjargal
5	3	3.3. Sirukathain thottramum valarchium
6	4	4.1. kathavu
7	4	4.2. Kudumpaththil Oru Nabar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1. Vallottru migum edangal 5.2. Vallottru miga edangal
9	2	2.1. Abdul raguman - Aalaabanai 2.3. Vairamuththu - Suyakolli
10	2	2.2. Mu.Meththaa - Thesapidavukgu theru padaganin anjali
11	2	2.4. Thamizhchi - Enjottupen 2.5. Nattupurapadalgal
12	3	3.2. Puthukavithaien Thottramum valarchium
13	3	3.4. Nattupura Illakiyangal
14	4	4.3. Jeyil - Sirukathai
15	4	4.4. Minnal 4.5. Ezhuthamarantha kathai

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THIRUVARUTPA --VALLALAR BHARATHADESAM--BHARATHIYAR
2	1	ULLAGAM UNNUDAYATHU-BHARATHIDASAN AASIYAJYOTHI- KAVIMANI
3	1	YESUKAAVIYAM- KANNADASAN
4	3	20th CENTURARY POETS (KAVIGZARGAL)
5	3	SIRUKATHAI- THOTRAMAMUM VALARCHIYUM
6	4	KATHAVU-K RAJANARAYANAN
7	4	KUDUMBATHIL ORU NABAR- K RAJANARAYANAN

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	VALLOTTRU MIGUM,MIGA IDANGAL
9	2	AALABANAI-ABDUL RAHAMAN
10	2	DESAPITHAVUKKU ANJALI- M MEHATHA PUTHIYAERPADU- VAIRAMUTHU
11	2	ENJOTTUPENN-THAMIZHACHI NATTUPURA PADALGAL- VANAMA MALAI
12	3	PUTHUKAVITHAI THOTRAMUM VALARCHIYUM
13	3	NATTUPURA ILLAKIYANGAL
14	4	JAIL,MINNAL- K RAJANARAYANAN
15	4	YEZHUTHA MARANTHAKATHAI

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LESSON PLAN

Name of the Staff	**Dr. S. Umamageswari**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making request and responding to request Thanking someone and responding to thanks
2	1	Prose:How to be a doctor Precis writing Non-finite verb Strong and weak verb The auxiliaries
3	2	Strong and weak forms in transcription Inviting, accepting and refusing an invitation Apologising and responding to an apology
4	2	Poem:Auguries of innocence Note making Use of wrong preposition Unnecessary use of articles
5	3	The relationship between spelling and sound Paying compliment, showing appreciation, offering encouraging and responding to them Asking for, giving and refusing permission
6	3	Prose:My vision for india
7	3	Report writing Punctuation and capital

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA exam
9	4	Sentence transcription Describing daily routines
10	4	Poem:If One act play:The merchant of venice
11	4	Paragraph writing Personal details
12	5	Transcribing short passages Asking for directions and giving directions Boigraphy:Kiran bedi
13	5	Use wrong tenses The uses of prefixes and suffixes
14	0	II CIA exam
15	0	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sounds- Consonants 1. Meeting People, Exchanging Greetings & Taking Leave 2. Introducing people to others
2	1	Prose: Forgetting - Robert Lynd 1. Letter-Writing - Informal Letters 2. The Sentence 3. Parts of Speech
3	2	Speech sounds- Pure Vowels 1. Giving Personal Information 2. Talking about people Poem: Mending Wall – Robert Frost
4	2	1. Letter-Writing - Formal Letters 2. Nouns – Classes and Gender 3. Nouns – Number and case 4. Adjectives 5. Comparison of Adjectives
5	3	Diphthongs 1. Taking and leaving messages 2. Making enquiries on the phone Poem: Time and Love – William Shakespeare
6	3	1. Dialogue Writing 2. Articles 3. Pronouns – Personal, Reflexive and Emphatic 4. Pronouns – Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	1. Reading Comprehension 2. Verbs – Transitive and Intransitive 3. Verbs – Active and Passive Voices
9	5	Voiced and Voiceless sounds Dealing with a wrong number Short Story: The Selfish Giant- Oscar Wilde
10	5	1. Verbs: Mood and Tense 2. Concord or Agreement of the verb with the Subject
11	4	Phonetic Transcription (words) Answering the Telephone and Asking for Someone 1. Prose: Mother Teresa - John Frazer 2. One-Act Play: The Best Laid Plans - Farrel Mitchell
12	5	2. One-Act Play: The Best Laid Plans - Farrel Mitchell
13	4	1. Prose: Mother Teresa - John Frazer
14	0	II CIA Exams
15	5	REVISION AND CLASS TEST

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular - Thirumanthiram Thondaradi Podiyalvar - Thirumalai
2	1	Thirunavugarasar-Thevaram Manikkavasagar- Thiruvasagam
3	1	Andal - Thirupavai Pattinathar - Pulampal
4	4	Sampanthar, Suntharar Alvargal Muthal Alvargal Muvar Mattum
5	5	Mozhithiran -Tamilil pera Thuraigal Ariviyal Atchithurai Kanini Pulanguporul
6	5	Mozhipeyarpu kadithangal Tamil Mozhi Peyarpu
7	4	Orainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai Thuroga suvadugal - Eraianpu
9	3	Urainadai Thuroga suvadugal - Eraianpu
10	3	Urainadai Thuroga suvadugal - Eraianpu
11	4	Elakkiyavaralaru Sitrilakkiyangal - Thudu, oola, Kuravanchi,Anthathi
12	4	Elakkiyavaralaru Esulamum Tamilum
13	2	Sitrilakkiyangal Masthan Sakipu - Paraparakanni Kumarakuruparar - Pillai Tamil
14	2	Sitrilakkiyangal Kaligathu Parani -Porgalam Nanthikalampagam - Nanthivarman
15	2	Sitrilakkiyangal Mukkudar Pallu - PallargalinValam

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**MT101S : ALGEBRA AND TRIGONOMETRY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Polynomial Equations - Imaginary and Irrational roots – Symmetric Functions of roots in terms of Coefficients
2	1	Reciprocal Equations – Transformation of Equations-Descartes Rule of Signs
3	1	Approximate Solutions of Polynomials by Horner's method – Newton Raphson method of Solution of a cubic polynomial
4	2	Binomial series
5	2	Exponential series
6	2	Logarithmic series
7	3	Symmetric and Skew symmetric – Hermitian and Skew Hermitian – Orthogonal and Unitary Matrices

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	rank of Matrix – Consistency and solutions of Linear Systems – Cayley Hamilton Theorem
9	3	Eigen Values – Eigen Vectors – Similar Matrices – Diagonalisation of Matrix
10	4	Number – Composite Number – Decomposition of a Composite Number as a Product of Primes uniquely
11	4	Divisors of a Positive Integer – Congruence Modulo n – Euler Function
12	4	Highest Power of a Prime Number p contained in n! – Fermat's and Wilson's Theorems (without proof)
13	5	Expansion of cosn?, sinn?- Expansion of tann? in terms of tan?- Expansion of tan[A+B+C+…] -solution of trigonometric equations
14	5	Powers of sines and cosines of ? in terms of functions of multiples of ? - Expansions of sin?, cos? and tan? in a series of ascending powers of ?
15	5	Hyperbolic and Inverse Hyperbolic functions: Real and Imaginary parts - Inverse Hyperbolic functions

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Silappathigaram
2	2	Manimegalai
3	3	5 Perum kapiyangal
4	4	Sirukapiyangal , sozerkala kapiyangal
5	5	Seevagasinthamani
6	5	Panbalai Vanoli Nigazchi Thogupu Vadikaiyalar Savai Maiya Aluvaler
7	5	Surtula Vazikati Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Pothukaturai
9	2	Kambaramayanam - Angathan Thoothu Padalam
10	3	Periya Puranam - Kalarsinga Nayanar Puranam
11	3	Ratchanya Yathirigam - Siluvai Padugal
12	3	Seera Puranam - Puli Vasanitha Padalam
13	4	ILakiya Varalaru - Chiruthuva Kapiyangal
14	4	ILakiya Varalaru - Chiruthuva Kapiyangal
15	4	Ilakiya Varalaru - Ilam Kapiyangal

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aganaanuru Puranaanuru
2	1	Kurunthogai Natrinai Aingurunuru
3	1	KALITHOGAI PARIPAADAL
4	4	Ettuthogai
5	4	Keezhkanakkil neethinoolgal
6	3	Thirukkural arivudaimai
7	3	Natparaithal pulavinunukkam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Surukki varaithal Mozhithiran
9	5	Neirkkanal Mozhithiran
10	4	Pathuppaattu
11	2	Nedunalvaadai 1 to 30
12	2	Nedunalvaadai 31 to 62
13	2	Sirubaanaatruppadai
14	2	Madhuraikkanji
15	2	Mullaipaattu

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**19AOFA41 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DEFINITION, OBJECTS, PRINCIPLES OF FIRST AID, QUALIFICATIONS, AND RESPONSIBILITIES OF FIRST AID, GOLDEN RULES OF FIRST AID
2	1	DIAGNOSIS- HOW TO DIAGNOSIS DISEASES- PATIENT HISTORY, SYMPTOMS, SIGNS & TREATMENT- PULSE RATE, PUPIL REACTION, SENSATION, BLOOD PRESSURE, BREATHING RATE, ETC.,
3	1	HEMORRHAGE OR BLEEDING, TYPES OF HEMORRHAGE, INTERNAL AND EXTERNAL BLEEDING,
4	2	DIABETIC EMERGENCY ,KIDNEY EMERGENCY
5	2	LIVER EMERGENCY , ASPHYXIA
6	2	CHOKING, DROWNING
7	2	SUFFOCATION

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	SUFFOCATION BY POISONOUS GASES
9	4	HEAD ACHE
10	4	TOOTH ACHE
11	4	EAR ACHE, EYE ACHE
12	4	DIARROHEA
13	4	DYSENTRY
14	4	CONSTIPATION
15	4	TRAVEL SICKNESS

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**ACMT301Q : ACCOUNTING FOR BUSINESS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to accounting-meaning and definition-need for accounting-scope of accounting-branches of accounting.
2	1	Methods of accounting-Types of accounting-Accounting rules-Book keeping- accounting - objectives of accounting.
3	1	–Advantages and limitations of accounting. Journal – Meaning-Transaction analysis for journal entries. Ledger – Meaning and definition-Differences between journal and ledger- Trial Balance-Meaning - Preparation of Trial Balance.
4	2	Subsidiary Books – Benefits of Subsidiary Books – Preparation of Individual Subsidiary Books
5	2	Purchase – Sales – Purchase Returns – Sales Returns – Cash Book – Single Column – Two Column – Three Column Cash Book
6	2	. Bank Reconciliation Statement – Meaning – Definition – Causes for Differences Between Cash Book and Pass Book-Method of Preparation of Bank Reconciliation Statement
7	3	Final Accounts of Sole Trader – Preparation of Profit and Loss Account

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Balance Sheet – Adjustments (Only Simple Problems)
9	3	Revision
10	4	Meaning and definition – Types of costing –Elements of cost
11	4	Preparation of cost sheet and its reconciliation statement-tenders and Quotations.
12	5	Marginal Costing - Meaning and Definition, Features, Advantages and Limitations - Marginal and Absorption Costing
13	5	Cost Volume Profit Analysis - Break Even Analysis and Break Even Point- Applications of Marginal Costing. (Key Factor, Make or Buy Decision, Export Decision, Product Mix and Sales Mix Decision)
14	5	Problems on marginal costing
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**ACMT301Q : ACCOUNTING FOR BUSINESS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning & Definition of Accounting, Need, Scope, Branches of Accounting, Methods, Book Keeping- Meaning, Differences.
2	1	Types- Personal, Real, Nominal, Accounting Rule, Objectives of Accounting, Advantages & Limitations
3	1	Journal - Meaning - Transaction analysis ledger - Meaning - Definition - differences between sound and Ledger - Trial balance
4	2	Subsidiary books - Meaning - Benefits - Types - Purchase - Sales - Purchase return - Sales return - Cash book
5	2	Single column - Double column - Three column cash book - Bank reconciliation statement - Meaning
6	2	Cash book - Pass book - Differences - Methods of preparation of Bank reconciliation statement
7	3	Final accounts of sole trader - Meaning - Preparation of profit and loss A/c

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of profit and loss A/c and balance sheet
9	3	Preparation of profit and loss A/c and balance sheet with adjustment - Revision Unit 1, 2, 3
10	4	Cost accounting - Introduction - Cost meaning - Definition - Types of costing - Elements of cost
11	4	Preparation of cost sheet
12	4	Preparation of cost sheet and its reconciliation statement -tender and quotation- Revision
13	5	Marginal costing- Meaning- Definition-Features-Advantages and limitations-Marginal Absorption costing
14	5	Cost volume profit analysis-Break even analysis and Break even point
15	5	Application of Marginal costing- Key factors- Make or Buy decision- Product mix-Sales mix decision-Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. P. Indhu Sakthi**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock Interview. Actual Interviews. Facing an Interview. Tele - Interviews.
2	1	Drama - Julius Caesar by William Shakespeare. Novel - The Count of Monte Cristo chapter (1-10) . Description.
3	2	Words often confused. Seminar Skills. Drama - Macbeth by William Shakespeare.
4	2	Novel - The count of Monte Cristo chapter-(11-20) Idioms and phrases.
5	3	Homonyms and similar words. Tele - conferences. Handling customers or clients.
6	3	Receiving Visitors. Drama - Henry IV by William Shakespeare. Novel - The count of Monte Cristo chapter (21-25).
7	3	Novel - The count of Monte Cristo chapter (26-30). The use of Graphics.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA Exam
9	4	Homophones. Booking Hotel Accommodation. Making small talk and Telling Stories.
10	4	Drama - As you like It by William Shakespeare. Novel - The count of Monte Cristo chapter(31-35).
11	4	Negotiations. Novel - The count of Monte Cristo chapter (36-40).
12	5	Group Discussions. Making Appointments. Cancelling and Rescheduling.
13	5	Drama - Hamlet by William Shakespeare. Novel - The count of Monte Cristo chapter (41-49). Writing Review of Books.
14	0	II CIA Exam
15	0	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**19AOFA41 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of first aid-objects of first aid –principles of first aid-Responsibilities
2	1	golden rules of first aid - kit for first aider. Diagnosis –blood pressure
3	1	bleeding or hemorrhage-types of hemorrhage-
4	1	Wounds-types-open and closed wounds-emergency care for general wounds-wound with foreign body-
5	1	special wounds-wounds to the palm of the hand, abdominal wounds. Bandages & general rules of applying bandages.
6	3	Effects of poisoning-treatment and measures-Stroke-Heart Attack-coronary obstruction and cardiac arrest- signs and symptoms –Treatment
7	3	insect bites- snake bites-dog bites-symptoms and treatment.-Injuries-head injuries-burns and scalds

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	-chemical burns-electric burns-radiation burns-and cold burns-sign-symptoms and treatment
9	5	Importance of carbohydrates-proteins-fats –their physiological function –Vitamins –fat soluble –water soluble-daily requirements –functions and deficiency
10	5	Importance of carbohydrates-proteins - physiological functions
11	5	Importance of fats –their physiological function –
12	5	Vitamins –fat soluble vitamins A,D
13	5	Vitamins –fat soluble vitamins E,K
14	5	Vitamins –Water soluble - B1& B2
15	5	Vitamins –Water soluble - B6,B12, Ascorbic acid, Niacin

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LESSON PLAN

Name of the Staff	**ANJAL MOSE S Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**MT305S : DIFFERENTIAL EQUATIONS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Equations of the First Order and Higher Degree, Equations Solvable for p- Equations Solvable for x
2	1	Equations Solvable for y ,Clairaut's Equation,
3	1	Equations of second and higher order with constant coefficients.
4	2	Euler's homogeneous linear equations , Legendre's Linear Equations
5	2	Method of Variation of Parameters
6	2	Method of undetermined Coefficients
7	3	Total Differential Equations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Different Methods of solving Pdx+Qdy+Rdz = 0
9	3	Different Methods of solving Pdx+Qdy+Rdz = 0
10	4	Formation of PDE , Complete Integral – Particular Integral
11	4	Singular Integral , Equation's Solvable by direct Integration , Solving equations of the types: f(p, q) = 0, f(x, p, q) = 0,
12	4	Solving equations of the types f(y, p, q) = 0, f(z, p, q) = 0, f(x, p) = f(y, p), Z = p x + q y + f(p, q) , Lagrange's equations.
13	5	Transform , Inverse Transform
14	5	Application of Laplace Transform to solution of first and second order linear Differential equations
15	5	simultaneous Linear Differential Equations.

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**MT306S : VECTOR AND FOURIER ANALYSIS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Differential of the vector, Geometric interpretation of the derivatives, differential formula.
2	1	Differentiation of dot and cross products,Partial derivatives of vectors,differentials of vector.
3	1	Gradient,Divergence and Curl, vector differential operator del-gradient of a scalar function, directional derivative, geometric interpretation.
4	2	Gradient of the sum of function , of the product of functions and the function of operations involving del, divergence of a vector and its physical interpration.
5	2	Curl of a vector and its physical interpretation-expansion formulae for operators involoving del-solenoidal and irrotational.
6	2	Vector identities. Problems based on vector identities...
7	3	The line integral, surface integral. Problems based on line and surface integral.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Volume integral, Theorem of Gauss divergence, problems based on gauss divergence theorem.
9	3	Stoke's Theorem, Green's theorem.
10	4	Euler's formulae, conditions Fourier expansions, functions having discontinuity.
11	4	Change of I intervals, odd and even functions, expansion of odd and even periodic functions
12	4	Range of series, typical wave from, parseval's identity.
13	5	Fourier transform, Fourier sine and cosine integrals, complex form of Fourier integrals, inversion formula for complex Fourier transform.
14	5	Properties of Fourier transforms, shifting property, modulation theorem. Fourier transform of derivative.
15	5	Relation between fourier transform and Laplace transform, convolution theorem, parsavel's identity.

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**APH401T : ALLIED PHYSICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PROPERTIES OF MATTER & ACOUSTICS : Bending of beams: Non uniform bending-Torsion of a wire-Torsional pendulum
2	1	Sound: Transverse vibrations of a stretched string- expression for the velocity of transverse wave – laws of transverse vibrations
3	1	A.C frequency measurement using sonometer- velocity of sound in a gas-Ultrasonics-production and uses
4	2	ELECTRICITY & MAGNETISM : Capacitor- energy of charged capacitors- loss of energy due to sharing of charges
5	2	DC circuits – growth and decay of charge containing resistance and capacitor (RC) circuit & inductance and resistance (LR) circuit
6	2	potentiometer-measurement of internal resistance of a cell and unknown resistances – Moment, Tan C and pole strength of a magnet
7	5	ELECTRONICS : FET-characteristics-parameters-FET as amplifier

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	IC-SSI LSI MSI-VLSI IC fabrication-Diode
9	5	flip flops-RS flip flops-D flip flops-JK flip flops
10	3	OPTICS : Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate
11	3	Determination of diameter of a thin wire by air wedge-chromatic aberration
12	3	achromatic combination of two thin lenses in contact- optical activity-specific rotatory power-polarimeter
13	4	RELATIVITY & QUANTUM MECHANICS : Elements of relativity and Postulates of theory of relativity- Lorentz transformation equations-derivation
14	4	Addition of velocities-twin paradox Minkowski's four dimensional space. Quantum mechanics: De Broglie's waves - Uncertainty principle
15	4	postulates of wave mechanics- - Schr?dinger's equation (Time dependent one dimensional) - application to a particle in a box

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**ASHOK KUMAR K Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	interview descrption
2	1	julius caesar novel chapter 1-10
3	2	descrption seminar skills novel 11-20
4	2	macbeth idoims and phrase
5	3	novel chapter 21-30 tele conferences
6	3	handling customer henry - 4
7	0	I CIA Exam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	booking hotel accommdation
9	4	as you like it play
10	5	group discussion making appointments
11	5	book review
12	0	seiminar group discussion sliptest
13	0	revision
15	0	revision
14	0	II cia exam

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**EMT618S : OPERATIONS RESEARCH**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definitions of OR - formulations of Linear programming problem - Graphical Methods
2	1	- The simplex method - Artificial variables techniques -
3	1	The Big-M method - The two-phase method
4	2	Definitions of the transportation model - Formulation and solution of transportation models
5	2	North-west corner rule - Least cost method - Vogel's approximation method
6	2	Solution of transportation - MODI method.
7	3	Definition of Assignment models - Mathematical representation of assignment models,processing two jobs through 'm' machines - processing n jobs through 'm' machines

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Comparison with the transportation models - Solution of the assignment model , Sequencing problems - processing 'n' jobs through two machines - processing 'n' jobs through three machines
9	3	The hungarian methods for solution of the assignment models - variation of the assignment problem.
10	4	Definitions - Rules for game theory - Rule 1 look for a pure strategy - Rule 2 reduce game by dominance
11	4	Rule 3 Solve for mixed strategy - Mixed strategies (2x2 games)
12	4	Mixed strategies (2xn games & mx2 games) - mixed strategies (3x3 or higher games).
13	5	Basic tools and techniques of project managements
14	5	Network logic - Numbering the events - Activity on node diagram
15	5	Critical path method - Programme evaluation and review technique [PERT].

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**17EMT512 : MECHANICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Types of Force-
2	1	Magnitude and direction of the resultant of the force acting on a particle –
3	1	Triangle of Force –Lamie's Theorem.
4	2	Kinematics of a particle- Velocity-Accelaration-RelativeVelocity-Relative Accealration- Angular Veloacity-Accelaration Components in Co-planer motion along
5	2	[a] Two fixed perpendicular direction , [b] Tangential and Normal Direction [c] Radial and Transverse direction .
6	2	Work, Power, Energy , Principal of Work and Energy. Rectlinear motion with uniform acceleration. Simple Harmonic Motion.
7	3	Motion of the Projectile ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Central Forces and Central Orbit ,
9	3	of the projectile, range on an inclined plane.
10	4	Equation of Central orbit, Finding Law of Force and Speed of a given orbit ,
11	4	Finding Law of Force and Speed of a given orbit (cont..)
12	4	finding the orbit given the Law of Force
13	5	Momentum of Inertia of Simple Body, Theorems of Parallel anf Perpendicular Aixs ,
14	5	Momentum of Inertia Triangular Lamina, Circular Lamina, Circular Ring
15	5	, Right Circuklar Cone, Sphere.(Solid and Hollow)

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LESSON PLAN

Name of the Staff	**VIRGIN RAJ A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT510 : REAL ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Functions, Real valued functions
2	1	Equivalence , Countability
3	1	Real numbers- Least Upper Bound.
4	2	Definition , Subsequences
5	2	Limit of sequence, Convergent Sequence
6	2	Divergent Sequence, Bounded Sequence , Mono tone Sequence.
7	3	Operations on Convergent Sequence Operation on Divergent Sequence

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Limit Superior and Limit Inferior ,Cauchy sequence.Series: Convergence and Divergence
9	3	Series with non-Negative terms , Alternating series, Conditional Convergence and Absolute Convergence.
10	4	Rearrangement of Series,Tests for Absolute Convergence
11	4	Series whose terms form a non increasing Sequence, Summation of Parts.Limits
12	4	Metric spaces: Limit of an Function of the Real Line , Metric Spaces , Limits in Metric Spaces.
13	5	Functions Continuous at a point on the real line
14	5	Reformulation, Function continues on a metric space
15	5	Open set, Closed set

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LESSON PLAN

Name of the Staff	**VIRGIN RAJ A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT615 : REAL ANALYSIS - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	More about Open Sets
2	1	Connected Sets
3	1	Bounded Sets and Totally Bounded Sets
4	2	Complete Metric Spaces
5	2	Compact Metric Space
6	2	Continuous Functions on Compact Metric Spaces – Continuity of Inverse Functions
7	3	Sets of measure zero- Definition of the Riemann Integral

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties of the Riemann Integral
9	3	Derivatives – Rolle's Theorem
10	4	The Law of the Mean
11	4	Fundamental Theorem of Calculus – Improper Integrals
12	4	Cauchy's Principle Value.
13	5	Taylor's Theorem: Taylor's Formula with Different Forms of Remainder
14	5	The Binomial Theorem
15	5	L' Hospital Rule

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT511 : COMPLEX ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Complex number-sum and product of complex number and basic algebraic property, vector and module, complex conjugate, exponential form, roots of complex number.
2	1	Products and powers of exponential form, complex conjugate
3	1	Argument of products and quotient, roots of complex number, examples and regions in the complex plane.
4	2	Functions of complex variables, mapping by exponential functions, limits.
5	2	Theorems on limit, limit involving the point at infinity
6	2	Continuity, derivatives, differentiation formulas.
7	3	Cauchy, Riemann equation, Sufficient conditions for different iability

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polar coordinate, analytical functions, examples, harmonic functions
9	3	Uniquely determined analytical functions, reflection principles
10	4	The exponential functions, The Lograthmic functions
11	4	Branches and derivatives of of Lograthmic functions and trigonometry functions
12	4	Hyperbolic functions
13	5	Derivatives of functions, definite integrals of functions, contours, contour integrals
14	5	Cauchy goursat theorem, problem solved based on this theorem
15	5	Anti derivatives, and problem solved

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT616 : COMPLEX ANALYSIS - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simply connected domain, multiply connected domain, Cauchy integral formula, An extension of Cauchy integral formula, some consequences of the extension
2	1	Liovilles formula and fundamental theorem of algebra, Maximum modulus principles
3	2	Convergence of sequence and convergence of series ,proof of Taylor and Lawrence series, Example, Uniqueness of series representaion.
4	3	Isolated singular points, Cauchy residue theorem. Residue at infinity, three types of isolated singular points
5	3	Residue at poles, zero and. Poles,zero. Of an analytic function
6	3	Zeros of an analytic function.
7	3	Problem solved on residue and poles

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revised unit1&2,slip test conducted
9	2	Revised unit2&3,test conducted. Class work notes corrected
10	4	Evaluation of improper integral,improper integral from Fourier analysis, Jordan 's Lemma,definite integral involving sine and cosine,
11	4	Definite integral of sine &cosine, Argument principle
12	4	Argument principle&Rouche's theorem.
13	5	Linear Transformation,The transformation w=1/z.Linear fractional transformation
14	5	Implicit form,Mapping of the upper half plane.
15	5	Conformal mapping preservation of angle.

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**EMT617S : PROGRAMMING IN C LANGUAGE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about C Language, Basic Structure of C program, programing Style,
2	1	Execute a C program, simple program, C Tokens
3	1	Keywords and Identifiers.
4	2	Constants-Variables-Data Types
5	2	Declaration of Variables- Declaration of Storage Class
6	2	Assigning values to variables.
7	3	Arithmetic Operators-Relational operators- Logical operators

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Assignment operators-Increment and decrement operators-Conditional operators
9	3	Bitwise operators-Evaluation of Expressions-Precedence of Arithmetic operators
10	4	Formatted input- Formatted output- Decision making with 'IF' statement-
11	4	Simple IF statement- The IF….ELSE statement-Nesting of IF… ELSE statement-The ELSE IF ladder
12	4	The switch statement – The ?: Operators- The GOTO statement.
13	5	The WHILE statement-The DO statement-The FOR statement
14	5	Jumps in LOOPS-One dimensional array-Declaration of one dimensional arrays-Initialization of one dimensional arrays-
15	5	Two dimensional arrays-Multi dimensional arrays.

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MTP601 : PRACTICAL - PROGRAMMING IN C LANGUAGE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Assigning the ASCII value.
2	1	Square of numbers: Using For loop, Square of numbers :While loop
3	1	Square of numbers: Do- while loop,
4	2	Square of numbers :Go to statement. Printing Alphabets between two letter
5	2	Model Exam I
6	2	Counting Vowels and consonants., Printing Prime number between two numbers
7	3	Checking Palindrome in string and Fibonacci series

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Factorial numbers Power of a value
9	3	Model Exam II
10	4	Sin(X) series Cos(X) series
11	4	Pascal Triangle Binary search
12	4	Model Exam III
13	5	Matrix Transpose and Matrix Addition
14	5	Matrix Subtraction
15	5	Matrix Multiplication

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**EMT513S : MATLAB**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Starting with MATLAB, MATLAB Windows
2	1	Working in the Command windows – Arithmetic Operations with Scalars – Display formats – Elementary Math Bult in functions .
3	1	Defining Scalar Variable – Creating one dimensional arrays and Creating two dimensional arrays.
4	2	Addition and Subtraction – Array Multiplication
5	2	Array Division – Element by Element Operation – Using Arrays in MATLAB
6	2	Bult in Math Function – Bult in Functions for Analyzing Arrays.
7	3	Relational operator and Logical operator – Conditional Statement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	The Switch Statement – Loops – Nested Loop -Nested Conditional Statement
9	3	The Break and Continue Commands. Revision for Unit 1, Unit 2 and Unit 3
10	4	Polynomials in MatLab, poly fit function
11	4	Curve fitting – Interpolation
12	4	The Basic fitting Interface. Fitting plane using MatLab
13	5	Solving an Equation with one variable .
14	5	Finding a Maximum or a Minimum of a function – Numerical Integration
15	5	Ordinary Differential Equation, Revision for Unit 4, Unit 5.

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MTP501 : PROGRAMMING IN MATLAB**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Matrix Manipulation
2	1	Matrix Manipulation
3	1	To Solve the System of Linear Equation
4	2	To Solve the System of Linear Equation
5	2	To Solve the Quadratic Equation
6	2	To Solve the Quadratic Equation
7	3	To Check Palindrome

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	To Generate Fibonacci Numbers
9	3	Model Practical-I
10	4	To Find the Binomial Coefficient
11	4	To Find the Binomial Coefficient
12	4	Two Dimensional And Three Dimensional Graphs, Sub-Plots
13	5	Ordinary Differentiation
14	5	Trapezoidal Rule
15	5	Model Practical -II

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT509 : ABSTRACT ALGEBRA**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of a Group ,examples
2	1	Examples – Subgroups
3	1	Results and theorems
4	2	Homomorphism
5	2	RESULTS ON HOMOMORPHISMS
6	2	Isomorphisms and Isomorphic. Fundamentol theorems on Isomorphism
7	3	Automorphisms, theorems on Automorphisms

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cayley's Theorem ,Permutation Groups
9	4	UNIT IV RINGS, Basic definitions, result
10	4	Integral Domain
11	4	Homomorphism of Rings
12	4	Ideals and Quotient Rings.
13	5	Prime Ideal and Maximal Ideal
14	5	The field of quotients of an Integral domain
15	5	Euclidean rings

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT614 : LINEAR ALGEBRA**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Vector space
2	1	Subspace
3	1	Theorems on Subspace
4	2	Dual space of V
5	2	Second dual space of V
6	2	Inner product space, Theorems
7	3	Rings and Quotient Rings

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theorems on Rings
9	3	Fundamental theorems on Rings
10	4	Ideals and Quotient Rings
11	4	maximal ideal and theorem
12	4	Theorems on Ideals
13	5	Trace and Transpose
14	5	Theorems on Transpose
15	5	Determinants and theorems

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LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Parathadesam , Vallarar
2	1	Asasiyajothi , Kannadasan
3	1	Parathithasan - ulagam unnudaiyathu
4	3	Erupatham nurtrandu kavinargal
5	3	Sirukathaen thortramum valarchium
6	4	Sirugathaigal - jail
7	5	Elakkanam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	abdulrahuman
9	2	m. matha
10	2	vairamuthu
11	2	thamilachi
12	2	natupurapadel
13	3	puthukavithai, jail
14	3	natupura ilakiyam, minnal
15	4	kathavu - elutha mareantha kathai

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LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger.
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore
12	4	Elocution
13	5	Description Narration
14	2	II CIA
15	5	Paragraph Writing

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROKIAMARY A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**MT203S : CALCULUS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Jacobians-Derivative of Implicit function using differentials,composite function
2	1	Total differential maxima and minima of function of 2 and 3 independent variable
3	1	Lagrange's method(without prof)
4	2	Curvature,Radius of curvature in Cartesian
5	2	Radius of curvature in polar coordinates.
6	2	p-r equations.
7	3	Evolutes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Envelopes
9	3	Asymptotes method (without proof) of finding asymptotes of rational algebraic curves with special cases.
10	4	Reduction formulae
11	4	Beta, Gamma functions
12	4	Properties of Beta Gamma functions.
13	5	Change of order of integration
14	5	Application to area
15	5	Surface area and volume.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHNBOSCO A Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Marabu kavithaigal -Thiruvarutpa-Eramalingavallalar Magakavi Barathiyarin- Baratha Desam
2	1	Barathidasanin Ulagam unnudaiyathu Kavimaniyin Aasiya jothi-Buhttharin Arivurai
3	1	1.Kaviyarasu Kannadasanin Eyasukaaviyam Uothsarippillai Uvamai
4	3	Elakkiya Varalaru-20am Nutrandu Kavijarkal Sirukathaiyin Thotramum Valarchium
5	4	Sirukathaigal-Kathavu,Ki.Erajanaarayananin Kathavu,Kudumbaththil Oru nabar
6	5	Mozhiththiran -Vallotru migum migaa Edangal
7	2	Abdhul Raguman-Aalabanai Mu Methaa-Thesappithavukku theruppadaganin Anjali Thamizhachi-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	????????????? - 2 ?? ?????????? –???????????????? ????????????? ??????
9	2	????????????? –????????? ??????????? –??????????????
10	4	??????? –??????
11	4	???????-???????
12	2	????????????? ???????? –???????? ????????
13	3	?????????????- ?????????????? ????????? ??????????
14	3	?????????????-??????????? ???????????
15	4	???????-????????????

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LESSON PLAN

Name of the Staff	**ANANTHI P**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English speech sounds -consonants, meeting people,exchanging greetings and taking leave, introducing people to others,
2	1	prose: Forgetting by Robert Lynd, letter writing-informal, parts of speech , sentences
3	2	Pure vowels Giving personal information Talking about people
4	2	Mending wall by Robert Frost Letter Writing-Formal letters Nouns Classes and Gender
5	2	Nouns - Number and case Adjectives Comparison of Adjectives
6	3	Diphthongs Talking and leaving messages Making enquiries on the phone Time and Love by William Shakespeare
7	3	Dialogue Writing Articles Pronouns- personal, Reflexive, Emphatic Pronouns- Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal Pronouns- Relative

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA Examination duty
9	4	Phonetics transcription (words) Answering the telephone and asking for someone Mother Teresa by John Fazer
10	4	One act play: The Best laid Plans by Farrel Mitchell Reading comprehension Student's seminar presentation
11	4	Verbs :Transitive and Intransitive Verbs : Active and passive voices Student's seminar presentation
12	5	Voiced and voiceless sounds Dealing with a wrong number Seminar presentation by students
13	5	Short story: The selfish Giant by Oscar Wilde Verbs : Mood and Tense Seminar presentation by students Concord of the verb with the subject
14	0	I I CIA Examination
15	0	Distribution of CIA marks Students seminar Revision Distribution of internal marks

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LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKTHI ILAKKIYANGAL 1.1 THIRUMOOLAR 1.2 THONDARADI PODI AAZHVAAR
2	1	1.3 THIRUNAAVUKKARASAR - THEVAARAM 1.4 MAANIKKA VASAGAR - THIRUVAASAGAM
3	1	1.5 AANDAAL - THIRUPPAAVAI 1.6 PATTINATHTHAAR - PULAMBAL
4	4	ILAKKIYA VARALAARU 4.1 SAMBANTHAR, SUNTHARAR MATTUM 4.2 AAZHVAARGAL (MUTHALAAZHVAAR MOOVAR MATTUM)
5	5	MOZHITHIRAN THAMIZHIL PIRA THURAIGAL, ARIVIYAL, AATCHITHURAI, KANINI, PUZHANGU PORULKAL
6	5	MOZHI PEYARPPU PAGUTHI (AANGILATHIL MOZHI PEYARKKA) KADITHANGL INIYA ELIYA THAMIZH MOZHI PEYARPPU
7	4	ILAKKYA VARALAARU 4.5 URAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	URAI NADAI THROGA CHUVADUGAL - VEY. IRAIYANBU
9	3	URAI NADAI THROGA CHUVADUGAL - VEY. IRAI ANDU
10	3	URAI NADAI THROGA CHUVADUGAL - VEY. IRAI ANBU
11	4	ILAKKIYA VARALAARU 4.3 SITRILAKKIYANGAL (THOOTHU, ULAA, KURAVANJI, ANTHATHI MATTUM)
12	4	ILAKKIYA VARALAARU 4.4 ISLAAMUM THAMIZHUM
13	2	SITRILAKKIYANGAL 2.1 MASTHAAN SAKIPPU - PARAABARAKKANNI 2.2 KUMARA KURUBARAR - PILLAI THAMIZH
14	2	2.3 KALINGATHU PARANI - PORE KALAM 2.4 NANTHI KALAMBAKAM - NANTHIVARMAN
15	2	2.5 MUKKOODAR PALLU - PALLARKALIN VALAM

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Vallalar - Thiruvarutpaa 1.2. Barathiyar - Barathadesam
2	1	1.3. Barathidasan - Ulagam unnudaiyathu 1.4. Kavimani - Aaciyajothi
3	1	1.5. Kannadasan - Utharimainthan
4	3	3.1. Irupadam Nootrandu kavinjargal
5	3	3.3. Sirukathain thottramum valarchium
6	4	4.1. kathavu
7	4	4.2. Kudumpaththil Oru Nabar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1. Vallottru migum edangal 5.2. Vallottru miga edangal
9	2	2.1. Abdul raguman - Aalaabanai 2.3. Vairamuththu - Suyakolli
10	2	2.2. Mu.Meththaa - Thesapidavukgu theru padaganin anjali
11	2	2.4. Thamizhchi - Enjottupen 2.5. Nattupurapadalgal
12	3	3.2. Puthukavithaien Thottramum valarchium
13	3	3.4. Nattupura Illakiyangal
14	4	4.3. Jeyil - Sirukathai
15	4	4.4. Minnal 4.5. Ezhuthamarantha kathai

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**MT101S : ALGEBRA AND TRIGONOMETRY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Matrices Symmetric and skew symmetric
2	3	Hermitian and skew hermitian Orthogonal and unitary matrices
3	3	Rank of the matrix Consistency
4	3	Characteristics equations Eigen values,eigen vectors
5	3	Matrix multiplication Examples
6	3	Cayley's Hamilton theorem Examples
7	3	Diagonalization Example sums

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Perfect number Divisors
9	5	Euclidean algorithm
10	5	Fermat's theorem Example sums
11	5	Wilson's theorem Example sums
12	5	Amicable numbers
13	5	Euler's theorem
14	5	Theorems
15	5	Examples

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THIRUMANDIRAM----- THIRUMOOLAR THIRUMAALAI--------- THONDARADIPODIYAZHVAR
2	1	THEVAARAM----- THIRUNAAVUKKARASAR THIRUVASAGAM --- MANIKKAVASGAR
3	1	THIRUPAAVAI------ AANDAAL IRANGARPA-------- PATTINATHAR
4	4	SAMBANDAR SUNDARAR, MUDALAAZHVAARGAL MOOVAR
5	5	TAMIL KALAI SORKAL ARIVIYAL, AATCHITHURAI, KANINNI, PUZHAGUPORUL
6	5	MOZHIPEYARPU PAGUTHI,, KADITHANGAL
7	4	TAMIL URAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THROGA SUVADUGAL: IRAI ANBU 1--4 CHAPTERS
9	3	THROGA SUVADUGAL 5--9 CHAPTERS
10	3	THROGA SUVADUGAL 10----13 CHAPTERS
11	2	NANDHI SWARA KANNI: MASTHAN SAHIB MEENATCHI AMMAI PILLAI TAMIL: KUMARAKURUBARAR
12	2	KALINGATHU BARANI, NANDHI KALAMBAGAM
13	2	MUKOODAL PALLU,,, ISLAMUM TAMIZHIUM
14	4	SITRILLAKIYANGAL: THOOTHU, , KURAVANCHI, ANTHAATHI
15	4	ISALMUM THAMIZHUM

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**MT101S : ALGEBRA AND TRIGONOMETRY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Polynomial Equations - Imaginary and Irrational roots
2	1	Symmetric Functions of roots in terms of Coefficients ,Reciprocal Equations ,Transformation of Equations
3	1	Descartes Rule of Signs ,Approximate Solutions of Polynomials by Horner's method ,Newton Raphson method of Solution of a cubic polynomial.
4	1	Approximate Solutions of Polynomials by Horner's method
5	1	Approximate Solutions of Polynomials by Horner's method
6	1	Newton Raphson method of Solution of a cubic polynomial.
7	2	Binomial series

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Binomial series
10	2	lograthmic series
11	2	lograthmic series
12	5	Trigonometry
9	2	Binomial series
13	5	Powers of sines and cosines of ? in terms of functions of multiples of ?
14	5	Expansions of sin?, cos? and tan? in a series of ascending powers of ?
15	5	Hyperbolic and Inverse Hyperbolic functions: Real and Imaginary parts - Inverse Hyperbolic functions.

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LESSON PLAN

Name of the Staff	**Dr. P. Indhu Sakthi**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell Bee
2	1	Story Telling. Quiz Game.
3	2	Seminar.
4	2	Debate
5	2	Group discussions.
6	3	Book Review
7	3	Film Review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	CIA Exam
9	4	Speech on current events.
10	4	Welcome Address.
11	4	Vote of Thanks.
12	4	Report Writing.
13	5	Narrating Dreams. Narrating Ambition.
14	0	II CIA Exam
15	0	Revision.

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LESSON PLAN

Name of the Staff	**DEVI SHYAMALA MARY C**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**MT102P : ANALYTICAL GEOMETRY OF THREE DIMENSIONS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	General equation, passing through three points, Angle between the plane
2	1	Line of intersection, plane bisecting the angle between the plane
3	2	Symmetrical form, passing through two points
4	2	Plane and straight line
5	2	Angle between the plane and the line
6	3	Coplanar lines
7	3	Shortest distance between two lines

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Intersection of three planes
9	4	Equation of a sphere,length of tangent to the sphere
10	4	Plane section of the sphere, intersection of two sphere
11	4	Tangent plane to the sphere
12	5	Equation of cone
13	5	Intersection of a stariagh line under quadric cone
14	5	Tangent pls e and normal- cylinder,right circular cylinder
15	5	Equation of an enveloping cylinder

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**MT204S : NUMERICAL METHODS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	First and higher order differences-forward difference and backward differences
2	1	Operators, relation between del and E, interpolation , Gregory Newton's forward interpolation formula.
3	1	Gregory Newton's backward interpolation formula -Factorial polynomial.
4	2	Central difference operations- central differences formulae.
5	2	Gauss forward and Backward formulae.
6	2	Sterling's formula-Bessel's formula.
7	3	Interpolation for unequal intervals and inverse interpolation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Divided difference, Newton's divided differences formulae
9	3	Lagranges interpolation formula, Estimating the missing terms. Inverse lagrangers method.
10	4	Linear algebraic equations -Gauss elimination method -Gauss Jordan method.
11	4	Gauss seidal method, crouts method (three unknowns only)
12	4	Inverse of a matrix-Gaussian method.
13	5	Numerical Differential equations Integration -Euler's method-improved Euler's method-Modified Euler's method.
14	5	The Runge kutta method _Adam's method .
15	5	Trapezoidal rule_Simpson's 1/3 rule_simpson's 3/8 th rule.

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**18SMT202 : ALLIED STATISTICS - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Discrete distributions: Binomial distribution definition , M.G.F. of binomial distribution , mean and variance of binomial distribution, Additive property of binomial distribution,and related problems
2	1	Poisson distribution definition , M.G.F. of poisson distribution , mean and variance of poisson distribution, Additive property of poisson distribution,and related problems
3	1	Geometric distribution definition , M.G.F. of Geometric distribution, mean and variance of Geometric distribution, Additive property of Geometric distribution,and related problems
4	2	Continuous distributions definitions, M.G.F. Of Uniform distribution mean and variance of Uniform distribution
5	2	Exponential distribution definitions, M.G.F. Of Exponential distribution mean and variance of Exponential distribution. Normal definitions area problems.
6	2	Normal definitions, M.G.F. Of Normal distribution mean and variance of Normal distribution. Sampling distributions: Student's t, F and 2 distributions (derivations only) and their relationships
7	3	Tests of Significance (small samples) basic definitions, test of significance of population mean based on t distribution, general procedure and related problems. test of significance of difference population means based on t distribution, general proced.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	paired t-test general procedure and related problems. F test general procedure and related problems. correlation coefficient general procedure and related problems
9	3	Chi–Square distribution: Test for independence of attributes.
10	4	Test of significance of population mean (large sample test) general procedure and related problems. Test of significance difference of population means related problems.
11	4	single proportion test related problems, difference proportion test related problems, single standard deviation related problems
12	4	test of significance difference standard deviation related problems. correlation related large sample problems
13	5	Analysis of Variance (ANOVA) definition , basic principles of ANOVA, uses of ANOVA , basic concepts of ANOVA,
14	5	One way classifications general procedure and related problems ,two way classifications general procedure and related problems, completely Randomized Design (CRD) general procedure and related problems.
15	5	Latin Square design (LSD) general procedure and related problems

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**18SMT101 : ALLIED STATISTICS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean
2	1	Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation basic definition explain the formula, and related problems.
3	1	Measures of Skewness: define skewness explain the types of skewness ,and measuring methods of skewness. Karl Pearson's skewness related problems, and Bowley's co-efficient of skewness method related problems. kurtosis problems.
4	2	Probability: Basic definitions Axiomatic approach to Probability –Basic theorems on Probability , Addition theorem on probability and Addition theorem on probability related problems.
5	2	Conditional probability – Multiplication theorem of probability and Multiplication theorem related problems – Independent events – Pair wise Independent events (definition only).
6	2	Baye's theorem and Bayes theorem related problems.
7	3	Random Variable , Distribution function and their properties ,Discrete random Variable , Probability mass function and simple problems

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Continuous random variable ,Probability density function and simple problems
9	3	Two dimensional random variables ,Joint probability mass function, Joint probability density function and simple problems.
10	4	Mathematical Expectations: Properties of Expectations , Addition theorem of Expectation, Multiplication theorem of Expectation,
11	4	Variance, Covariance and their properties. Moment generating function ,Characteristics function
12	4	Cumulants Chebychev's inequality (only theorem)
13	5	Correlation-Definition, uses and their properties, explain the various types of correlation, Karl Pearson's coefficient of correlation explain the formula and related problems, partial and multiple correlation definition and related problems.
14	5	Expalin Spearman's rank correlation coefficient concept and their formulas, Spearman's rank correlation coefficient RANK GIVEN method related problems, Spearman's rank correlation coefficient RANK NOT GIVEN method related problems,
15	5	Spearman's rank correlation coefficient REPEATED RANK method related problems Concurrent deviation method related problems. explain the scatter diagram method , Regression analysis: definition expalin the Simple regression equations and related prob...

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**18SMP201 : ALLIED STATISTICS - PRACTICAL**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Arithmetic mean, Median, Mode, Geometric mean, Harmonic mean related problems Quartile Deviation related problems, Mean Deviation from mean and Mean deviation based on median related problems
2	1	standard deviation related problems. Combined standard deviation and Cofficient of Variation related problems.
3	1	Karl Pearson's skewness related problems, Bowley's co-efficient of skewness method related problems and kelleys skewness related problems
4	2	Karl Pearson's Coefficient of Correlation, related problem
5	2	Spearman's Rank Correlation rank given, not given, repeated ranks problem
6	2	Regression analysis: Simple regression equations and predict the values
7	3	Fitting of binomial distribution related problems Fitting of poisson distribution related problems, Fitting of Normal distribution related problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Test of significance of population mean based on t distribution,related problems. Test of significance of difference population means based on t distribution, general procedure and related problems. correlation coefficient general procedure and related..
9	3	paired t-test related problems. F test related problems. Chi–Square distribution: Test for independence of attributes related problems.
10	4	Test of significance of population mean (large sample test), and related problems. Test of significance difference of population means related problems.
11	4	single proportion test related problems, difference proportion test related problems, single standard deviation related problems
12	4	test of significance difference standard deviation related problems. correlation related large sample problems
13	5	One way classifications related problem, two way classifications related problem
14	5	completely Randomized Design (CRD) related problem, Randomized Block Design(RBD) related problems
15	5	Latin Square design (LSD) related problem

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LESSON PLAN

Name of the Staff	**Dr. R. Sembiyan**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of personality, meaning of personality, definition of personality, personality determination, genitical determination
2	1	Social determinants, home, school, college, teacher, cultural determination, psychological of personality
3	1	Development of personality, need for personality development, guidelines to improve personality
4	2	Introduction of theory, Freudian theory, Freudian structure of personality, id, ego, super ego, defense mechanism,
5	2	Identification, displacement repression projection Reaction formation fixation and regression Jung's analytical psychology, Jun's structure of personality, ego , personal unconscious
6	2	The complexes the collective unconscious archetype the persona the anima and animus the shadow the self the attitude the function the dynamics of personality Psychic values and psychic energy
7	3	Introduction of stress, definition of stress, concept of stress, stress stressful situation and life transition psychological response bodily response behavioural response

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stress arousing events personal crises bereavement and grief
9	3	Stress copping skills Assessing stress essential hypertension and social support
10	4	Introduction of mental health, concept of mental health Definition of mental health self evaluation adjustability maturity regular life absence of extremism
13	4	Racism and discrimination war and violence signicfice of youth period specific mental health problems in youth period autonomy Vs depended felling of inferiority marriage and family identify role vocational Problems social discrimination
14	5	Introduction of personality assessment meaning of personality assessment, uses of personality assessment approach and personality assessment
15	5	Projective techniques Rorschach inkblot test thematic apperception test
11	4	Character influences of mental health factors influencing mental health biological factors genes infection organic condition malnutrition
12	4	Psychology factors socio economic factors and cultural factors interpersonal relationships economic and unemployment problems

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LESSON PLAN

Name of the Staff	**AROKIAMARY A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**MT306S : VECTOR AND FOURIER ANALYSIS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Differentiation of a vector, geometrical interpretation of the derivative, differentiation formulae, differentiation of dot and cross products
2	1	Partial derivatives of a vectos, differential of vector
3	2	Vector differential operators del, gradient of scalar function,directional derivative, geometric interpretation, gradient of the sum of functions,of the product of functions and of a function of function
4	2	Operations involving Del, Divergence of a vector and its physical Interpretation, Curl of a vector and its physical Interpretation
5	2	Expansion formulae for operators involving Del, solenoidal and irrotational.
6	3	The line integral, surface integral, volume integral,Theorem of Gauss Divergence.
7	3	Stoke's theorem and Green's theorem.(without proof).

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Euler's formulae, conditions for Fourier expansion,
9	4	Functions having discontinuity, change of interval
10	4	Odd and even functions, expansions of odd or even periodic functions
11	4	Half range series typical wave forms.
12	5	Definition, Fourier integrals
13	5	Fourier sine and cosine integral, complex form of Fourier integral
14	5	Fourier transform, Fourier sine and cosine transform,finite Fourier sine and cosine transform
15	5	Properties of Fourier transform convolution theorem for Fourier transform,parsvel's identity for Fourier transform.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams –
2	1	water resources: over – utilization, floods, drought – mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity –
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management –
14	5	environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservati...
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	?????????????
2	2	????????
3	4	Peunkappiyangal
4	4	Rettai kappiyangal
5	5	Panpalai vanoli nigalchi thoguppalar thahuthigal
6	5	Vadikkaiyalar sevaimaya aluvalar thaguthigal
7	5	Letters, composition

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kambaramayanam, nool kurippu,
9	3	Kambaramayanam, text
10	3	Periyapuranam
11	4	Christhava kappiyangal
12	4	Islamiya kappiyangal
13	4	Cholar kala kappiyangal
14	5	Kadithangal
15	5	Pothu katturaikal

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRABAKARAN D**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**ACMT301Q : ACCOUNTING FOR BUSINESS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning & Definition of Accounting, Need, Scope, Branches of Accounting, Methods, Book Keeping- Meaning, Differences.
2	1	Types- Personal, Real, Nominal, Accounting Rule, Objectives of Accounting, Advantages & Limitations
3	1	Journal - Meaning - Transaction analysis ledger - Meaning - Definition - differences between sound and Ledger - Trial balance
4	2	Subsidiary books - Meaning - Benefits - Types - Purchase - Sales - Purchase return - Sales return - Cash book
5	2	Single column - Double column - Three column cash book - Bank reconciliation statement - Meaning
6	2	Cash book - Pass book - Differences - Methods of preparation of Bank reconciliation statement
7	3	Final accounts of sole trader - Meaning - Preparation of profit and loss A/c

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Preparation of profit and loss A/c and balance sheet
9	3	Preparation of profit and loss A/c and balance sheet with adjustment - Revision Unit 1, 2, 3
10	4	Cost accounting - Introduction - Cost meaning - Definition - Types of costing - Elements of cost
11	4	Preparation of cost sheet
12	4	Preparation of cost sheet and its reconciliation statement -tender and quotation- Revision
13	5	Marginal costing- Meaning- Definition-Features-Advantages and limitations-Marginal Absorption costing
14	5	Cost volume profit analysis-Break even analysis and Break even point
15	5	Application of Marginal costing- Key factors- Make or Buy decision- Product mix-Sales mix decision-Revision

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PURANAANOORU, ---- PAADAL-183, 192. AGANAANOORU,,02,-& 104 KURUNTHOGAI---- 03&40
2	1	NATRINAI-110 & 149 INGURUNOORU------ VEITKAI 10,1 TO 5 KALITHOGAI--------- PAALAIKALI 9 & 11
3	1	PARIPADAL-------- THIRUMAAL
4	3	THIRUKURAL ATHIGARAM ARIVUDAMAI
5	3	THIRUKUAL ATHIGARAM NATPUAARAITHAL, PUALAVI NUNUKAM
6	4	ILAKIYAVARALAARU,: ETTUTHOGAI NOOLGAL
7	4	PATHINEN KIZHKANAKKIL NEETHI NOOLGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHITHIRAN PATHRIGAIGALIL SEITHI VARAITHAL
9	5	SURUKI VARAITHAL, NER KAANAL
10	2	NEDUNAL VAADAI 1-30 LINES
11	2	NEDUNAL VAADAI 31-62 LINES KULIRKAALA VARNANAI
12	2	SIRUPAANAATRU PADAI
13	2	MADURAI KANCHI
14	2	MULLAI PAATTU
15	4	PATHUPAATU NOOLGAL

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**MT408 : GRAPH THEORY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Graphs and Subgraphs
2	1	Subgraphs
3	1	Theorems on Subgraphs
4	2	Unit II Operations on Graphs
5	2	Adjacency Matrix, Degree sequence
6	2	Degree sequence
7	3	Connectedness, Walk, Trial and Path

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theorems on walk and trial
9	3	theorems on path
10	4	Eulerian graph, Theorems
11	4	Hamiltonian Graph,Defintions and theorems
12	4	Trees and theorems
13	5	Plane Graph definitions and theorems
14	5	planar graph theorems
15	5	coloring and chromatic number

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Silappathikaram - vazhakkurai kathai
2	1	Manimegalai - Aaputhiranodu mani pallavam adaintha kathai
3	4	Impem kappiyankal
4	4	Insiru kappiyankal, solarkala kappiyankal
5	2	Seevaga sinthamani- Namagal elambakam
6	5	Panpalai vanoli nigazhchi thoguppu, vadikkaiyalar sevai maiya aluvalar
7	5	Sutrula vazhikatti, kaditham

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Pothu katturai
9	2	Kamba ramayanam -Angathan thoothu padalam
10	3	Periya puranam - kazhar singa nayanar puranam
11	3	Ratsinaiya yathrigam - siluvai padukal
12	3	Serapuranam - puli vasinitha puranam
13	4	Kristhuva kappiyankal - mudhal paguthi
14	4	Islamiya kappiyankal
15	4	Kristhuva kappiyankal - irandam paguthi

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LESSON PLAN

Name of the Staff	**SAVITHAMARY A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**MT305S : DIFFERENTIAL EQUATIONS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Equations of the first order and higher order, equation solvable for p
2	1	Equation solvable for x, equation solvable for y
3	1	Clairaut's equations, equation of second and higher order with constant coefficients
4	2	Euler's homogeneous linear equation , Legendre's equation
5	2	Method of Variation of Parameters-
6	2	Method of undetermined Coefficients.
7	3	Total Differential Equations – Different Methods of solving Pdx+Qdy+Rdz = 0.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Total Differential Equations – Different Methods of solving Pdx+Qdy+Rdz = 0.
9	3	Total Differential Equations – Different Methods of solving Pdx+Qdy+Rdz = 0.
10	4	Formation of PDE – Complete Integral – Particular Integral – Singular Integral – Equation's Solvable by direct Integration
11	4	Solving equations of the types: f(p, q) = 0, f(x, p, q) = 0,
12	4	f(y, p, q) = 0, f(z, p, q) = 0, f(x, p) = f(y, p), Z = p x + q y + f(p, q) - Lagrange's equations
13	5	Transform – Inverse Transform
14	5	Application of Laplace Transform to solution of first and second order linear Differential equations
15	5	solution of simultaneous Linear Differential Equations.

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LESSON PLAN

Name of the Staff	**DEVI SHYAMALA MARY C**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**MT407S : FUZZY SETS AND APPLICATION**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fuzzy sets, definition, different types of fuzzy sets
2	1	General definitions and properties of fuzzy sets,other important operation, fuzzy vs crisp
3	2	Introduction, some important theorems, fuzzy compliments
4	2	Further operations on fuzzy sets
5	2	t -norms,t- conorms, definition of intersection and union of two fuzzy sets
6	3	Fuzzy numbers, Algebraic operation of two fuzzy numbers
7	3	binary operation of two fuzzy numbers – Some special extended operations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Interval analysis in arithmetic – Lattice of fuzzy numbers.
9	4	Introduction – Composition – Properties of Min-max composition
10	4	binary relations on a single set – compatibility relation
11	4	fuzzy ordering relation.
12	5	Fuzzy logic – Fuzzy connectives
13	5	fuzzy inference – fuzzy propositions
14	5	quatifiers – linguistic hedges
15	5	Revision

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LESSON PLAN

Name of the Staff	**SHAGIRTHA K Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**19AOFA31 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Diabetic emergency - hyperglycemia , hypoglycemia
2	2	Symptoms, sign and treatment of liver emergency
3	2	Symptoms, sign and treatment of kidney emergency
4	2	Choking - sign and treatment, methods of back slap- adult, Infants and children
5	2	Asphyxia - causes, symptoms,sign and treatment
6	2	Drowning - effect - symptoms , sign and treatment
7	2	Symptoms, sign and treatment of suffocation, suffocation by poisonous gases

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Causes, sign, symptoms and treatment of head ache
9	4	Tooth ache - sign, symptoms and treatment
10	4	Causes, sign, symptoms and treatment of ear ache
11	4	Causes and treatment of common cold and cough
12	4	Causes, sign and symptoms of diarrhoea
13	4	Dysentery - causes, sign, symptoms and treatment
14	4	Constipation - sign, symptoms and treatment
15	4	Sign, symptoms and treatment of travel sickness

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**19AOFA31 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of first aid-objects of first aid –principles of first aid-Responsibilities- golden rules of first aid - kit for first aider
2	1	Diagnosis –blood pressure-bleeding or hemorrhage-types of hemorrhage-
3	1	Wounds-types-open and closed wounds-emergency care for general wounds-wound with foreign body-special wounds-wounds to the palm of the hand, abdominal wounds.
4	1	Bandages & general rules of applying bandages
5	3	Poisoning –Routes of poisoning- Effects of poisoning-treatment and measures-Stroke-Heart Attack-coronary obstruction
6	3	cardiac arrest- signs and symptoms –Treatment-insect bites-snake bites-dog bites-symptoms and treatment.
7	3	Injuries-head injuries-burns and scalds

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	chemical burns-electric burns-radiation burns-and cold burns-sign-symptoms and treatment.
9	5	Importance of carbohydrates-proteins-fats and their physiological function
10	5	Vitamins –fat soluble Vitamins A,D -daily requirements – functions and deficiency
11	5	Vitamins –fat soluble Vitamins E,K -daily requirements – functions and deficiency
12	5	water soluble vitamins Vit-B1 & B2 daily requirements – functions and deficiency
13	5	water soluble vitamins Vit-C daily requirements –functions and deficiency
14	5	water soluble vitamins B6 daily requirements –functions and deficiency
15	5	comparison of all the vitamins - daily requirements –functions and deficiency

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LESSON PLAN

Name of the Staff	**Mr. A. Pradhap**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Publicity Literature
2	2	Tryst with Destiny – Jawaharlal Nehru (Speech: Prose)
3	3	Gettysburg Address- Abraham Lincoln (Speech: Prose) E- Mail Writing
4	4	Inaugural Address – John F. Kennedy (Speech: Prose)
5	4	Prepared to Die- Nelson Mandela (Speech: Prose)
6	4	Presentation Skills
7	0	REVISION

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	4	Resume Writing
10	5	Some useful Expressions
11	5	Speech Writing
12	5	Biography: Sarojini Naidu – Padmini Sengupta
13	5	Minutes Writing
14	0	II CIA
15	0	REVISION

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Quit India – Mahatma Gandhi Tryst with Destiny – Jawaharlal Nehru
2	2	Giving One's Opinion on current National/ Social issues One – Act Play : The Bear – Anton Chekhov
3	3	Spotting Errors Gettysburg Address- Abraham Lincoln I have a Dream – Martin Luther King
4	3	E- Mail Writing One – Act Play : The Hour of Truth – Percival Wilde
5	3	Preparing news items of local events and speaking about them
6	3	Sample News Item (Event) Revision
7	1	Revision/Slip Test

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	1 CIA
9	4	Prepared to Die- Nelson Mandela Inaugural Address – John. F. Kennedy
10	4	Presentation Skills
11	4	Autobiography : Sorrows of Childhood – Charles Chaplin
12	4	Resume Writing
13	2	Revision
14	2	II CIA
15	5	Overall Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs,
3	1	renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots –
9	3	threats to biodiversity – endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution,
11	4	marine pollution, noise pollution, thermal pollution and nuclear hazards –
12	4	solid waste management: causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	1	Manimegalai
3	2	Sevaga sinthamani
4	4	Erattai kappiyam, impermkappiyam
5	4	Insiru kappiyam
6	5	Mozhithiran
7	5	Sutrulavazhikatti, kadithangal, pothukatturai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Kamparamayanam
9	3	Periyapuranam
10	3	Thempavani
11	3	Sirapuranam
12	4	Kirusthava kappiyangal
13	4	Kerusthava kappiyangal
14	4	Esulamiya kappiyangal
15	4	Solar kala kappiyangal

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LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Greeting Description
2	1	Publicity Literature Refund
3	2	One's Own Opinion
4	3	1. Preparing news items of local events and speaking about them 2. Sample News Item (Event)
5	3	E- Mail Writing
6	2	Spotting Errors
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	5	Some useful Expressions
10	5	Speech Writing
11	5	Minutes Writing Presentation Skills Resume Writing
12	5	Marie Curie- Colin Mitchell
13	2	Revision
14	2	II CIA
15	5	Overall Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock - interview Facing an interview Tele - interview
2	2	Macbeth - He kills sleep - William Shakespeare Description Words often confused
3	1	Julius Caesar - Funeral Oration - William Shakespeare Seminar skills Idioms and phrases
4	3	Homonyms and similar words Tele- Conferences Henry IV - William Shakespeare
5	3	Handling customers or clients Receiving visitors The use of Graphics The count of Monte Cristo - Alexandre Dumas
6	1	The count of Monte Cristo - Alexandre Dumas
7	2	The count of Monte Cristo - Alexandre Dumas

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	5	As you like it - patterns of Love - William Shakespeare Homophones Negotiations
10	4	Booking Hotel Accomodation Making small talk and telling stories Group discussion
11	5	Making Appointments Cancelling and rescheduling appointment Hamlet- william Shakespeare
12	5	The count of Monte Cristo - Alexandre Dumas
13	5	The count of Monte Cristo - Alexandre Dumas
14	1	Revision
15	2	II CIA

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management:
12	4	causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**APH401T : ALLIED PHYSICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	5	FET-characteristics-parameters-FET as amplifier
2	5	-IC-SSI LSI MSI-VLSI IC fabrication-Diode-
3	5	flip flops-RS flip flops-D flip flops-JK flip flops .
4	1	Bending of beams: Non uniform bending-Torsion of a wire-Torsional bendulum.
5	1	Sound: Transverse vibrations of a stretched string- expression for the velocity of transverse wave – laws of transverse vibrations-
6	1	A.C frequency measurement using sonometer- velocity of sound in a gas-Ultrasonics-production and uses.
7	2	Capacitor- energy of charged capacitors- loss of energy due to sharing of charges DC circuits –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Growth and decay of charge containing resistance and capacitor (RC) circuit & inductance and resistance (LR) circuit -
9	2	Potentiometer-measurement of internal resistance of a cell and unknown resistances – Moment, Tan C and pole strength of a magnet
10	4	Elements of relativity and Postulates of theory of relativity-Lorentz transformation equations- derivation Addition of velocities-twin paradox
11	4	Minkowski's four dimensional space. Quantum mechanics: De Broglie's waves - Uncertainty principle- postulates of wave mechanics-
12	4	Schrodinger's equation (Time dependent one dimensional) - application to a particle in a box.
13	3	Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate-Determination of diameter of a thin wire by air wegdge
14	3	spherical aberration – minimizing spherical aberrtion by using two thin lenses in contact-chromatic aberration- achromatic combination of two thin lenses in contact-
15	3	optical activity-specific rotatory power-polarimeter

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SOUSSITRA A Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aganaanuru Puranaanuru
2	1	Kurunthogai Natrinai Aingurunuru
3	1	KALITHOGAI PARIPAADAL
4	4	Ettuthogai
5	4	Keezhkanakkil neethinoolgal
6	3	Thirukkural arivudaimai
7	3	Natparaithal pulavinunukkam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Surukki varaithal Mozhithiran
9	5	Neirkkanal Mozhithiran
10	4	Pathuppaattu
11	2	Nedunalvaadai 1 to 30
12	2	Nedunalvaadai 31 to 62
13	2	Sirubaanaatruppadai
14	2	Madhuraikkanji
15	2	Mullaipaattu

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**MT305S : DIFFERENTIAL EQUATIONS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Equation of first order and higher degree differential equation
2	1	Equations of first order, second order differential equation with constant coefficient
3	1	Solving second order differential equation with constant coefficient
4	2	Solving second order differential equation with variable coefficient
5	2	Euler's homogenous linear Differenctial equation, method of variations of parameters
6	2	Method of undetermined coefficient
7	3	Total differential equation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Total differential equation
9	3	Total differential equation
10	4	Partial differential equation -by eliminating arbitrary constant, by eliminating arbitrary functions
11	4	Solving partial differential equation of different types
12	4	Solving partial differential equation of different types, lagrange's method
13	5	Laplace transform,
14	5	Laplace transform and inverse Laplace transform
15	5	Solving differential equation by using Laplace transform

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LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**19AOFA31 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Choking-symptoms –signs and treatment
2	2	asphyxia-symptoms –signs and treatment
3	2	suffocation-symptoms –signs and treatment
4	2	drowning -effects-symptoms and signs and treatment
5	2	suffocation by poisonous gases, methods of back slap-adults – infants and children
6	2	Diabetic emergencies –Hyperglycemia, Hypoglycemia-symptoms and signs treatment
7	2	Liver emergency- symptoms and signs treatment

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Kidney Emergency-symptoms and signs treatment
9	4	Diarrhoea causes-symptoms and signs-treatment
10	4	Dysenter causes-symptoms and signs-treatment
11	4	constipation causes-symptoms and signs-treatment
12	4	travel sickness-signs and symptoms-treatment
13	5	Importance of carbohydrates-proteins-fats –their physiological function
14	5	Importance of proteins –their physiological function
15	5	Importance of fats –their physiological function

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**ACMT301Q : ACCOUNTING FOR BUSINESS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to accounting-meaning and definition-need for accounting-scope of accounting-branches of accounting.
2	1	Methods of accounting-Types of accounting-Accounting rules-Book keeping- accounting - objectives of accounting.
3	1	–Advantages and limitations of accounting. Journal – Meaning-Transaction analysis for journal entries. Ledger – Meaning and definition-Differences between journal and ledger- Trial Balance-Meaning - Preparation of Trial Balance.
4	2	Subsidiary Books – Benefits of Subsidiary Books – Preparation of Individual Subsidiary Books
5	2	Purchase – Sales – Purchase Returns – Sales Returns – Cash Book – Single Column – Two Column – Three Column Cash Book
6	2	. Bank Reconciliation Statement – Meaning – Definition – Causes for Differences Between Cash Book and Pass Book-Method of Preparation of Bank Reconciliation Statement
7	3	Final Accounts of Sole Trader – Preparation of Profit and Loss Account

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Balance Sheet – Adjustments (Only Simple Problems)
9	3	Revision
10	4	Meaning and definition – Types of costing –Elements of cost
11	4	Preparation of cost sheet and its reconciliation statement-tenders and Quotations.
12	5	Marginal Costing - Meaning and Definition, Features, Advantages and Limitations - Marginal and Absorption Costing
13	5	Cost Volume Profit Analysis - Break Even Analysis and Break Even Point- Applications of Marginal Costing. (Key Factor, Make or Buy Decision, Export Decision, Product Mix and Sales Mix Decision)
14	5	Problems on marginal costing
15	5	Revision

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**MT407S : FUZZY SETS AND APPLICATION**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fuzzy definition Properties
2	1	Height of a fuzzy set Alpha cut Union Intersection
3	1	Subsethood Compliment Normal fuzzy set
4	2	Some important theorem's First and second decomposition theorem
5	2	Fuzzy compliment Some important theorem's First and second characterisation theorem
6	2	Operations on fuzzy sets t-norms and t conforms Some definitions
7	3	Fuzzy sets and it's operations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Problems Lattice
9	3	Theorem
10	4	Fuzzy relations Composition
11	4	Properties of Min-Max composition Compatibility relations
12	4	Fuzzy ordering relations Max product and Max average composition
13	5	Fuzzy logic Fuzzy connectives
14	5	Fuzzy inference Fuzzy proposition
15	5	Fuzzy quantifiers

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LESSON PLAN

Name of the Staff	**KALAIMATHI M**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**MT306S : VECTOR AND FOURIER ANALYSIS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
2	1	Differential formula Differentiation of dot and cross product
1	1	Differentiation of a vector Geometrical interpretation of derivatives
3	1	Partial derivatives of vector Differential of vectors
4	2	Vector differential operator del Gradient of a scalar function Directional derivative
5	2	Geometric interpretation Gradient of the sum of functions, product function and function of function Operations involving del Diverengence of a vector and its physical interpretation
6	2	Curl of a vector and its interpretation Expansion formula for operation involving del Solenoidal and irrotation
7	3	The line integral The surface integral

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Volume integral Theorems of gauss divergence
9	3	Strokes theorem Greens theorem
10	4	Condition for fourier expansion Function having discontinuity
11	4	The change of interval-odd and even function Expansion of odd or even periodic function
12	4	Half range series Typical wave form Parseval formula
13	5	Definition-fourier integral Fourier cosine and sine integral Complex form of fourier integral
14	5	Fourier transform-fourier cosine and sine transform Finite Fourier cosine and sine transform Properties of fourier transform
15	5	Convolution theorem for fourier transform Parsevals identity for fourier transform

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LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**19AOFA31 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about first aid, golden roles-wider-healthcare-team of first aid, responbilities of first aid.
2	1	First aider, kit for first aider, blood prepare signs and symptoms
3	1	Bandages and its types
4	1	Hemorrhage, types of blood- capillary, arterial and venous blood
5	1	Wound classification of wound and General treatment for wound
6	1	Specific wound - palm of the hand and abdominal wound
7	1	Introduction about Bandages, types and applications.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Introduction about carbohydrates and its types.
9	5	Physiological functions of carbohydrates and calorific values
10	5	Introduction about aminoacids and its types.
11	5	Introduction about protein
12	5	Physiological functions of proteins and its calorific value.
13	5	Introduction about lipids
14	5	Types of fatty acids and its importance
15	5	Physiological functions of lipids and its calorific values

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Welcoming and gathering NARRATION VOTE OF THANKS INTRODUCING A GUEST TO AUDIENCE
2	1	Refund -ONE ACT PLAY PUBLICITY LITERATURE
3	2	QUIT INDIA- MAHATMA GANDHI TRYST WITHDESTINY -JAWAHARAL NEHRU SOCIAL ISSUES
4	2	SPOTTING ERRORS THE BEAR -ONE ACT PLAY
5	3	I HAVE A DREAM - MARTIN LUTHER KING GETTYSBURG ADDRESS- ABRAHAM LINCOLN NEWS REPORT WRITING
6	3	THE HOUR OF TRUTH- ONE ACT PLAY E-MAIL-WRITING
7	3	I- CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Prose Inaugural Address by John F Kennedy Prepared to Die
9	5	Presentation skills Autobiography Sorrows of Childhood by Charles Chaplin
10	5	Resume Writing
11	5	Some useful expressions Speech writing
12	5	Biography Marie Curie by Colin Mitchell
13	5	Biography Sarojini Naidu by Padmini Sengupta Minutes Writing
14	5	II-CIA
15	5	Revision and Seminar

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTERVIEW JULIUS CAESAR NOVEL 1-5
2	1	DESCRIPTION NOVEL 6-10
3	2	SEMINAR SKILLS NOVEL 11-15
4	2	MACBETH NOVEL 15-20 WORDS OFTEN CONFUSED
5	3	TEL CONFERENCE RECEIVING VISITORS NOVEL 21-25
6	3	NOVEL 25-30 THE USES OF GRAPHICS HENRY-IV
7	0	I CAI EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	HOMOPHONES Booking Hotel Accomodation
9	4	Making small talk and Telling Stories As You Like It
10	4	Novel 31-40 Negotiations
11	5	Group Discussions Making Appointment Cancelling and Rescheduling Appointments
12	5	Hamlet
13	5	Novel 41-49 Writing review of Books
14	0	II CIA EXAM
15	0	REVISION

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LESSON PLAN

Name of the Staff	**YOGAMBAL C Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**APH401T : ALLIED PHYSICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bending of beams: Non uniform bending-Torsion of a wire-Torsional pendulum. Sound: Transverse vibrations of a stretched string
2	1	Expression for the velocity of transverse wave – laws of transverse vibrations
3	1	A.C frequency measurement using sonometer- velocity of sound in a gas-Ultrasonics-production and uses.
4	2	Capacitor- energy of charged capacitors- loss of energy due to sharing of charges DC circuits
5	2	Growth and decay of charge containing resistance and capacitor (RC) circuit & inductance and resistance (LR) circuit
6	2	Potentiometer-measurement of internal resistance of a cell and unknown resistances – Moment, Tan C and pole strength of a magnet
7	3	Interference-Wedge shaped film-Air wedge-Description- Test for Optical flatness of glass plate

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Determination of diameter of a thin wire by air wedge-chromatic aberration
9	3	Achromatic combination of two thin lenses in contact- optical activity-specific rotatory power-polarimeter
10	4	Elements of relativity and Postulates of theory of relativity-Lorentz transformation equations
11	4	Derivation Addition of velocities-twin paradox Minkowski's four dimensional space. Quantum mechanics: De Broglie's waves
12	4	Uncertainty principle- postulates of wave mechanics- - Schr? dinger's equation (Time dependent one dimensional) - application to a particle in a box.
13	5	FET-characteristics FET-parameters FET as amplifier
14	5	IC-SSI LSI MSI-VLSI IC fabrication Diode
15	5	Flip flops RS flip flops D flip flops JK flip flops

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**19AOFA31 : FIRST AID**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	POISONING, ROUTES OF POISONING AND ITS CAUSES
2	3	STROKE, HEART ATTACK, CORONARY OBSTRUCTION SIGNS, SYMPTOMS AND TREATMENT
3	3	CARDIAC ARREST SIGNS, SYMPTOMS AND TREATMENT
4	3	INSECT BITE, SNAKE BITE, DOG BITE SIGNS, SYMPTOMS AND TREATMENT
5	3	BURNS, SCALDS, CHEMICAL BURNS SIGNS, SYMPTOMS AND TREATMENT
6	3	ELECTRIC BURNS, RADIATION BURNS, COLD BURNS SIGNS, SYMPTOMS AND TREATMENT
7	3	HEAD INJURIES SIGNS, SYMPTOMS AND TREATMENT

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	HEADACHE SIGNS, SYMPTOMS AND TREATMENT
9	4	TOOTH ACHE SIGNS, SYMPTOMS AND TREATMENT
10	4	EAR ACHE SIGNS, SYMPTOMS AND TREATMENT
11	4	COLD AND COUGH SIGNS, SYMPTOMS AND TREATMENT
12	3	POISONING, ROUTES OF POISONING AND ITS CAUSES
13	3	STROKE, HEART ATTACK, CORONARY OBSTRUCTION SIGNS, SYMPTOMS AND TREATMENT
14	3	CARDIAC ARREST SIGNS, SYMPTOMS AND TREATMENT
15	3	INSECT BITE, SNAKE BITE, DOG BITE SIGNS, SYMPTOMS AND TREATMENT

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought –
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management:
12	4	causes, effects, control measures and disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain,
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act –
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health

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LESSON PLAN

Name of the Staff	**Dr. J. Jon Arockiaraj**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT509 : ABSTRACT ALGEBRA**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of a Group - Examples
2	1	Some Preliminary Lemmas
3	1	Subgroups
4	2	Counting Principle
5	2	Normal Subgroups
6	2	Homomorphism.
7	3	Automorphisms

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cayley's Theorem
9	3	Permutation Groups.
10	4	Definition and Examples - Integral Domain
11	4	Homomorphism of Rings
12	4	Ideals and Quotient Rings.
13	5	Prime Ideal and Maximal Ideal
14	5	The field of quotients of an Integral domain
15	5	Euclidean rings. and revision

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LESSON PLAN

Name of the Staff	**AROKIAMARY A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT616 : COMPLEX ANALYSIS - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simply connected domains,multiply connected domain,Cauchy Integral Formula
2	1	An extension of Cauchy Integral Formula, Some Consequences of the extension.
3	1	Liouville's theorem and the fundamental theorem ofAlgebra, Maximum modulus principle,
4	2	Convergence of sequences,convergence of series,Taylor's series
5	2	Proof of Taylor's theorem examples Laurent's series
6	2	Proof of Laurent's theorem, examples, uniqueness of series representation.
7	3	Isolated singular points,Residues,Cauchy's residue theoremResidue at infinity,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Three types of isolated singular points.Residues at poles,Examples
9	3	zeros of an analytic function,zeros and poles.
10	4	Evaluation of improper integrals, examples
11	4	Improper integrals from Fourier analysis, Jordan's Lemma
12	4	Definite integrals involving sines and cosines, Arguments principle,Rouches theorem
13	5	Linear transformation, the transformation w=1/z, mapping by 1/z
14	5	Linear fractional transformation,An implicit form
15	5	Mappings of upper half plane, preservation of angles.

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**EMT618S : OPERATIONS RESEARCH**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definitions of OR - formulations of Linear programming problem - Graphical Methods
2	1	- The simplex method - Artificial variables techniques -
3	1	The Big-M method - The two-phase method
4	2	Definitions of the transportation model - Formulation and solution of transportation models
5	2	North-west corner rule - Least cost method - Vogel's approximation method
6	2	Solution of transportation - MODI method.
7	3	Definition of Assignment models - Mathematical representation of assignment models,processing two jobs through 'm' machines - processing n jobs through 'm' machines

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Comparison with the transportation models - Solution of the assignment model , Sequencing problems - processing 'n' jobs through two machines - processing 'n' jobs through three machines
9	3	The hungarian methods for solution of the assignment models - variation of the assignment problem.
10	4	Definitions - Rules for game theory - Rule 1 look for a pure strategy - Rule 2 reduce game by dominance
11	4	Rule 3 Solve for mixed strategy - Mixed strategies (2x2 games)
12	4	Mixed strategies (2xn games & mx2 games) - mixed strategies (3x3 or higher games).
13	5	Basic tools and techniques of project managements
14	5	Network logic - Numbering the events - Activity on node diagram
15	5	Critical path method - Programme evaluation and review technique [PERT].

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT511 : COMPLEX ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Complex numbers: Sums and products – Basic algebraic properties – Further properties
2	1	Vectors and Moduli – Complex conjugates – Exponential form – Products and powers in exponential form
3	1	Arguments of products and quotients- Roots of complex numbers – Examples – Regions in the complex plane.
4	2	Functions of a Complex variable – Mappings - Mapping by the exponential function
5	2	Limits – Theorems on Limits – Limits involving the point at infinity
6	2	Continuity – Derivatives –Differentiation formulas.
7	3	Cauchy-Riemann Equations-Sufficient Conditions For Differentiability

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Polar Coordinates-Analytic Functions-Examples-Harmonic Functions.
9	3	Uniquely Determined Analytic Functions-Reflection Principle.
10	4	The Exponential Function-The Logarithmic Function
11	4	Branches And Derivatives Of Logarithms.
12	4	Trignometric Functions-Hyperbolic Function.
13	5	Derivatives of Functions w(t)- Definite Integrals of Functions w(t)- Contours.
14	5	Contour Integrals-Some Examples-Upper Bounds For Moduli of Contour Integrals-
15	5	Antiderivatives-Proof of The Theorem-Cauchy-Goursat Theorem- Proof of The Theorem.

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT614 : LINEAR ALGEBRA**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Vector space Sub space Fundamental theorem of homomorphism
2	1	Internal and external direct sum Linearly independent and linearly dependent Dimension Basis
3	1	Theorem's Corollary
4	2	Dual space Annihilator
5	2	Inner product space Norms Schwartz inequality
6	2	Orthogonal Orthonormal Gram Schmidt orthogonalization process
7	3	Linear transformation Cayley's theorem

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Invertible Singular Theorem
9	3	Range Rank Characteristic root Characteristic vectors
10	4	Matrix Canonical form
11	4	Similar Invariant Lemma
12	4	Triangular theorem Alternative theorem
13	5	Trace Jacobson theorem
14	5	Transpose Nilpotent Symmetric
15	5	Determinants Cramer's rule

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LESSON PLAN

Name of the Staff	**KALAIMATHI M**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**EMT513S : MATLAB**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Starting with matlab MATLAB windows Working the command windows Arithmetic operations with scalars
2	1	Display formats Elementary Math Built in the function and creating two dimension arrays
3	1	Defining scalar variable Creating one dimensional arrays
4	2	Addition and subtraction Array multiplication
5	2	Array division Element by element operation Using arrays in matlab
6	2	Built in math function Built in function for analysing arrays
7	3	Relational opearator Logical operator Switch statement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Loops Nested lop and nested conditoon
9	3	Break and continue comand
10	4	Polynomials Curve fitting
11	4	Interpolation
12	4	Interferance
13	5	Solving an equation with one variable Finding a maximum and minimum of a function
14	5	Numerical interpolation
15	5	Ordinary differential equation

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LESSON PLAN

Name of the Staff	**DEVI SHYAMALA MARY C**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT510 : REAL ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Functions,real valued functions, equivalence
2	1	Countability and real numbers,least upper bound
3	2	Definition ,subsequences,limit of sequence
4	2	Convergent sequence, divergent sequence
5	2	Bounded sequence, monotone sequence
6	3	Operations on convergent sequence , operation ondivergent sequence, limit superior and limit inferior
7	3	Cau chy sequence, convergence and divergence,series with non negative terms

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Alternating series, conditional and convergence and absolute convergence
9	4	Rearrangement of series, tests for absolute convergence
10	4	Series whose term's form a non decreasing sequence, summation of part s
11	4	Limits and metric spaces, limit of an functions of the real line
12	4	Metric spaces, limit s in metric spaces
13	5	Continuous on metric spaces
14	5	Open sets
15	5	Closed sets

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**17EMT512 : MECHANICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
7	3	Force on a projectile, Nature of trajectory.
8	3	Projectile projected on an inclined plane.
9	3	Maximum range on an inclined plane. Enveloping parabola or bounding parabola.
10	4	Introduction of Central orbits.
11	4	Differential equations of a central orbit for polar coordinates and p-r equation of central orbits.
12	4	Problems based on laws of a central force..
1	1	Types of forces, magnitude and direction of the restaurant of the force.

Cycle	Unit	Topics to be covered / Activity to be carried out
2	1	Triangle law of force. Based problems.
3	1	Lamie's theorem , based problems.
4	2	Kinematics of a particle, relative velocity, relative acceleration, angular velocity.
5	2	Acceleration components in coplaner motion along Two fixed perpendicular direction, tangential and normal direction. Radial and transverse direction.
6	2	Work, power energy, rectilinear motion with uniform acceleration, simple harmonic motion.
13	5	Momentum of inertia of simple body.
14	5	Theorems of parallel and perpendicular axis.
15	5	Momentum of inertia triangular lamina, circular lamina, circular ring, right circular cone, sphere (solid and hollow)

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**EMT617S : PROGRAMMING IN C LANGUAGE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Structure of C Programs
2	1	Programming style- Executing a 'C' Programs
3	1	'c' Tokens- Keywords and Identifiers
4	2	Constants-Variables-Data Types
5	2	Declaration of Variables-
6	2	Declaration of Storage Class- Assigning values to variables
7	3	Arithmetic Operators-Relational operators

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Logical operators-Assignment operators-Increment and decrement operators-Conditional operators
9	3	Bitwise operators-Evaluation of Expressions-Precedence of Arithmetic operators
10	4	Formatted input- Formatted output
11	4	Decision making with 'IF' statement- Simple IF statement- The IF….ELSE statement-Nesting of IF…ELSE statement
12	4	The ELSE IF ladder-The switch statement – The ?: Operators-The GOTO statement.
13	5	The WHILE statement-The DO statement-The FOR statement
14	5	Jumps in LOOPS-One dimensional array-Declaration of one dimensional arrays
15	5	Initialization of one dimensional arrays-Two dimensional arrays-Multi dimensional arrays

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MTP601 : PRACTICAL - PROGRAMMING IN C LANGUAGE**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	12	1. Assigning the ASCII value 2. Square of numbers: Using For loop,
2	34	3. Square of numbers :While loop 4. Square of numbers: Do-while loop,
3	5	5. Square of numbers :Go to statement.
4	67	6. Printing Alphabets between two letter 7. Counting Vowels and consonants.
5	89	8. Printing Prime number between two numbers 9. Fibonacci series
6	10	10. Factorial numbers
7	11	11. Power of a value

Cycle	Unit	Topics to be covered / Activity to be carried out
8	12	12. Checking Palindrome in string
9	1314	13. Sin(X) series 14. Cos(X) series
10	15	15. Pascal Triangle
11	16	16. Binary search
12	17	17. Matrix Transpose
13	18	18. Matrix Addition
14	1920	19. Matrix Subtraction 20. Matrix Multiplication
15	120	Model P:ractical Exam

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LESSON PLAN

Name of the Staff	**Dr. J. Jon Arockiaraj**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT614 : LINEAR ALGEBRA**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Linearly Independent and Linearly Dependent - Definition and Theorem
2	1	Fundamental Theorem of Homomorphism, Theorems
3	1	Theorem and Examples.
4	2	Dual space
5	2	inner product spaces.
6	2	inner product spaces.
7	3	Algebra of linear transformations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	characteristics roots
9	3	characteristics roots
10	4	Matrices
11	4	canonical forms
12	4	triangular forms
13	5	Trace
14	5	Transpose
15	5	Determinants

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LESSON PLAN

Name of the Staff	**AROKIAMARY A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT511 : COMPLEX ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sums and products,basic algebraic properties, further properties, vector and modullai
2	1	Complex conjugate, exponential form, products and powers in exponential form, arguments of products and quotients
3	1	Roots of complex numbers , examples,regient in the complex plane, functions of a complex variables, mappings, mappings by the exponential function
4	2	Limits ,Theorems on limits,
5	2	Limits involving the point at infinity, continuity, Derivatives, Differentiation Formulas
6	3	Cauchy -Riemann equations, Sufficient conditions for differentiability,polar coordinates,Analytic Functions,
7	3	Examples, Harmonic Functions, Uniquely Determined Analytic Functions, Reflection Principle.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	The exponential function, the logarithmic functions
9	4	Branches and derivatives of logarithms,
10	4	Trigonometric functions, Hyperbolic function
11	5	Derivatives of functions w (t),Definite integrals of functions w (t)
12	5	Contour, contour integrals
13	5	Some examples, bounds for modulai of contour integrals
14	5	Antiderivatives, proof of the Theorem
15	5	Cauchy-Goursat theorem ,proof of the Theorem

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**17EMT512 : MECHANICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Types of Force-
2	1	Magnitude and direction of the resultant of the force acting on a particle –
3	1	Triangle of Force –Lamie's Theorem.
4	2	Kinematics of a particle- Velocity-Accelaration-RelativeVelocity-Relative Accealration- Angular Veloacity-Accelaration Components in Co-planer motion along
5	2	[a] Two fixed perpendicular direction , [b] Tangential and Normal Direction [c] Radial and Transverse direction .
6	2	Work, Power, Energy , Principal of Work and Energy. Rectlinear motion with uniform acceleration. Simple Harmonic Motion.
7	3	Motion of the Projectile ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Central Forces and Central Orbit ,
9	3	of the projectile, range on an inclined plane.
10	4	Equation of Central orbit, Finding Law of Force and Speed of a given orbit ,
11	4	Finding Law of Force and Speed of a given orbit (cont..)
12	4	finding the orbit given the Law of Force
13	5	Momentum of Inertia of Simple Body, Theorems of Parallel anf Perpendicular Aixs ,
14	5	Momentum of Inertia Triangular Lamina, Circular Lamina, Circular Ring
15	5	, Right Circuklar Cone, Sphere.(Solid and Hollow)

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**MT616 : COMPLEX ANALYSIS - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Preliminary ideas about Analytic functions, Simply connected Domain, problem based on cauchy Goursat Theorem
2	1	Multiply connect Domain, principal of Deformation of path, Cauchy integral formula, some Consequence of Extension.
3	1	Liouville's theorem and the fundamental theorem of Algebra – Maximum modulus principle.
4	2	Convergence of sequences – Convergence of series – Taylors Series –
5	2	Proof of Taylor's theorem – Examples – Laurent Series – Proof of Laurent's Theorem – Examples
6	2	Uniqueness of Series representations.
7	3	Isolated singular points – Residues – Cauchy's Residue Theorem – Residue at infinity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	The three types of isolated singular points – Residues at poles – Examples –
9	3	Zeros of an analytic function – Zeros and poles. and revision of 1,2 and 3 unit.
10	4	Evaluation of improper integrals – Examples – Improper integrals from Fourier Analysis
11	4	Jordan' s lemma – Definite integrals involving sines and cosines
12	4	Argument principle – Rouche's Theorem.
13	5	Linear transformations – The transformation w = 1/z
14	5	Linear fractional transformations – implicit form – Mappings of the upper half plane(Omit examples)
15	5	Conformal mapping: Preservation of angles and Revision of Unit 4 and 5

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT509 : ABSTRACT ALGEBRA**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Groups Subgroups
2	1	Cyclic group Generator
3	1	Order of an element Index Fermat's theorem
4	2	Counting principle Normal subgroup
5	2	Homomorphism Isomorphism
6	2	Kernel of a homomorphism Isomorphism theorem
7	3	Automorphism Inner automorphism

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Centre of G Cayley's theorem
9	3	Permutation Cycles
10	4	Rings Division ring Zero divisor
11	4	Integral domain Field Characteristic zero
12	4	Homomorphism in ring Kernel in ring Ideals
13	5	More ideals Quotient rings
14	5	Imbedding Euclidean ring
15	5	Principal ideal ring Unique factorization theorem

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LESSON PLAN

Name of the Staff	**SAVITHAMARY A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**MT510 : REAL ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Functions, Realvalued functions, equivalence
2	1	Countablity, real numbers,lest upperbound
3	2	Sequences and subsequences, limit of a sequences, convergent sequences
4	2	Divergent Sequence – Bounded Sequence
5	2	Mono tone Sequence.
6	3	Operations on Convergent Sequence Operation and Divergent Sequence
7	3	Limit Superior and Limit Inferior – Cauchy sequence.Series:

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Convergence and Divergence – Series with non-Negative terms
9	3	Alternating series – Conditional Convergence and Absolute Convergence.
10	4	Rearrangement of Series – Tests for Absolute Convergence
11	4	Series whose terms form a non increasing Sequence – Summation of Parts.Limits and Metric spaces:
12	4	Limit of an Function of the Real Line – Metric Spaces – Limits in Metric Spaces.
13	5	Functions Continuous at a point on the real line – Reformulation
14	5	Functions Continuous on a Metric Spaces –
15	5	Open sets – Closed Sets

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LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**6**
Subject	**EMT618S : OPERATIONS RESEARCH**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Definitions, rules for game theory, rule 1 look for a pure strategy
2	4	Rule 2 reduce game by dominance, Rule 3 solve for mixed strategy
3	4	Mixed strategies(2x2 games) - mixed strategies (2xn games and mx2 games) -mixed strategies (3x3 or higher games)
5	5	Network logic-numbering the events-activity on node diagram,Numering of the events,Activity on node diagram.
4	5	Network analysis : lBasic tools and techniques of project managements .
6	5	critical path method, program evaluation and review technique (PERT)
7	1	Definition of OR, formulations of linear programming Problem. Graphical methods of solution.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	The simplex method, Artificial variables techniques.
9	1	The Big M method, the two phase method.
10	2	Definition of transportation model -Formulations and solution of transportation models.
11	2	North west corner rule-Least cost method -Vegel's approximation method.
12	2	Solution of transportation -Modi methods.
13	3	Definition of Assignment models -Mathematical representation of assignment model. Comparison with the transportation models with solution of the assignment model.
14	3	The Hungarian methods for solution of the assignment models-variation of the assignment problem. Sequencing problems-processing 'n' jobs through two machines.
15	3	Processing 'n' jobs through three machines-processing two job through 'm' machines-processing 'n' jobs through 'm' machines.

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LESSON PLAN

Name of the Staff	**JULIAN FRANCIS R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**5**
Subject	**EMT513S : MATLAB**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Starting with MATLAB, MATLAB Windows – Working in the Command windows – Arithmetic Operations with Scalars
2	1	Display formats – Elementary Math Bult in functions – Defining Scalar Variable
3	1	Creating one dimensional arrays and Creating two dimensional arrays.
4	2	Addition and Subtraction – Array Multiplication – Array Division
5	2	Element by Element Operation – Using Arrays in MATLAB
6	2	Bult in Math Function – Bult in Functions for Analyzing Arrays
7	3	Relational operator and Logical operator

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Conditional Statement – The Switch Statement – Loops – Nested Loop
9	3	Nested Conditional Statement – The Break and Continue Commands
10	4	Polynomials
11	4	Interpolation - Curve fitting
12	4	The Basic fitting Interface
13	5	Solving an Equation with one variable
14	5	Finding a Maximum or a Minimum of a function
15	5	Numerical Integration – Ordinary Differential Equation

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bakthi Ilakiyam: 1. Thirumoolar 2. Thondaradi Podiyazvar
2	1	Bakthi Ilakiyam: 1. Thirunavukarasar 2. Manikavasager
3	1	Bakthi Ilakiyam: 1. Aandal 2. Patinathar
4	4	Ilakiya Varalaru -Sambanthar , Sundarar Muthal Azvargal
5	5	Mozhi Thiran - kalaisolakkam
6	5	Mozhi Thiran - Kaditham , Mozhi payarpu
7	4	Ilakiya Varalaru - Urainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Droga Suvadugal - V. Iraianbu
9	3	Droga Suvadugal - V. Iraianbu
10	3	Droga Suvadugal - V. Iraianbu
11	4	Ula, Thoothu, Kuravanji, Anthadi
12	4	Ilakiya Varalaru - Islamum Thamizumum
13	2	Mazthan Sagibu, Kumaragurubarar
14	2	Kalingathu parani, Nanthikalambagam
15	2	Mukoodar Pallu

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALALAR PADALGAL
2	2	BARATHIYAR - BARATHADASAM
3	3	KANADASAN - YASUKAVIYAM
4	4	ILAKIYAVARALARU - IRUBATHAM NOORTANDU KAVINGERKAL
5	5	ILAKIYAVARALARU - SIRUKATHAI THORTAM VALERCHY
6	6	SIRUKATHAI - KATHAVU
7	7	SIRUKATHAI - KUDUBATHIL ORU NABER

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	ILAKANAM - VALLINAM MIGUM, MIGA IDEAM
9	9	ABDUL RAHUMAN - ARAVATHU ARIVU
10	2	PUTHUKAVITHAI - M. MATHA - DESAPITHA KAVINGER VAIRAMUTHU- SUYAKOLLI
11	2	THAMIZACHI - THOZHI NATUPURA PADALGAL - MAZAI PADALGAL
12	3	ILAKIYA VARALARU - PUTHUKAVITHAI THORTAM VALERCHI
13	3	ILAKIYA VARALARU - NATUPURA ILAKIYANGAL
14	4	SIRUKATHAI - JAIL , MINNAL
15	4	SIRUKATHAI - ELUTHA MARANTHA KATHAI

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LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Greeting Seeking,Giving, Refusing Permission Exercise
2	2	Verbal Communication Conversation
3	3	Telephone Conversation
4	4	Role play
5	5	Simple sentences
6	6	Framing questions
7	7	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Speaking skill
9	9	Framing long sentences
10	10	Translating simple sentences from Tamil to English
11	11	Reading Skill
12	12	Reading Skill
13	13	Framing simple questions
14	14	Writing skill
15	15	Grammar test

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LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell Bee
2	2	Story telling
3	3	Quiz game
4	4	Seminar
5	5	Debate
6	6	Group Discussion
7	7	Film review Book review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Speech on Current Events
9	9	Welcome Address
10	10	Vote of Thanks
11	11	Report Writing
12	12	Narrating Dreams
13	13	Narrating Ambition
14	14	Test 1
15	15	Test 2

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LESSON PLAN

Name of the Staff	**Dr. E. Ruby Violet Rani**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**VE101T : VALUE EDUCATION**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valurs
2	1	Source
3	1	Erosion of value
4	2	Learning
5	2	Theories
6	2	Continued
7	3	Memory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stages of memory
9	3	Modelling
10	4	Emotions
11	4	Theories
12	4	Pleasant emotions
13	5	Intelligence
14	5	Determinants
15	5	Revision

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THIRUMANDIRAM----- THIRUMOOLAR THIRUMAALAI--------- THONDARADIPODIYAZHVAR
2	1	THEVAARAM----- THIRUNAAVUKKARASAR THIRUVASAGAM --- MANIKKAVASGAR
3	1	THIRUPAAVAI------ AANDAAL IRANGARPA-------- PATTINATHAR
4	4	SAMBANDAR SUNDARAR, MUDALAAZHVAARGAL MOOVAR
5	5	TAMIL KALAI SORKAL ARIVIYAL, AATCHITHURAI, KANINNI, PUZHAGUPORUL
6	5	MOZHIPEYARPU PAGUTHI,, KADITHANGAL
7	4	TAMIL URAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THROGA SUVADUGAL: IRAI ANBU 1--4 CHAPTERS
9	3	THROGA SUVADUGAL 5--9 CHAPTERS
10	3	THROGA SUVADUGAL 10----13 CHAPTERS
11	2	NANDHI SWARA KANNI: MASTHAN SAHIB MEENATCHI AMMAI PILLAI TAMIL: KUMARAKURUBARAR
12	2	KALINGATHU BARANI, NANDHI KALAMBAGAM
13	2	MUKOODAL PALLU,,, ISLAMUM TAMIZHIUM
14	4	SITRILLAKIYANGAL: THOOTHU, , KURAVANCHI, ANTHAATHI
15	4	ISALMUM THAMIZHUM

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THIRUVARUTPA --VALLALAR BHARATHADESAM--BHARATHIYAR
2	1	ULLAGAM UNNUDAYATHU-BHARATHIDASAN AASIYAJYOTHI- KAVIMANI
3	1	YESUKAAVIYAM- KANNADASAN
4	3	20th CENTURARY POETS (KAVIGZARGAL)
5	3	SIRUKATHAI- THOTRAMAMUM VALARCHIYUM
6	4	KATHAVU-K RAJANARAYANAN
7	4	KUDUMBATHIL ORU NABAR- K RAJANARAYANAN

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	VALLOTTRU MIGUM,MIGA IDANGAL
9	2	AALABANAI-ABDUL RAHAMAN
10	2	DESAPITHAVUKKU ANJALI- M MEHATHA PUTHIYAERPADU- VAIRAMUTHU
11	2	ENJOTTUPENN-THAMIZHACHI NATTUPURA PADALGAL- VANAMA MALAI
12	3	PUTHUKAVITHAI THOTRAMUM VALARCHIYUM
13	3	NATTUPURA ILLAKIYANGAL
14	4	JAIL,MINNAL- K RAJANARAYANAN
15	4	YEZHUTHA MARANTHAKATHAI

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LESSON PLAN

Name of the Staff	**PARIMALA CELIA M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19MB204 : MICROBIAL METABOLISM**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles of energetics
2	1	Oxidation Reduction Reactions
3	1	Respiratory chain
4	2	Glycolysis, Pentose phosphate pathway
5	2	ED pathway
6	2	Fermentation
7	3	TCA cycle

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Catabolism of Proteins
9	3	Catabolism of lipids
10	4	Energy production using aerobic process-Repiration without oxygen
11	4	Heterotrophic carbon di oxide fixation
12	4	Glyoxylate cycle
13	5	Photosynthesis-cYclic and non cyclic process
15	5	Bioluminescence
14	5	Mechanism of ATP synthesis

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LESSON PLAN

Name of the Staff	**SUMITHA D Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**19MB102 : MICROBIAL TAXONOMY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Classification - Haeckel's, Whitaker's - Prokaryotes and eukaryotes
2	1	- Evolution of microorganisms -Taxonomical ranks,
3	1	-Binomial Nomenclature -Characteristics used in Taxonomy - Outline of bacterial classification according to Bergey's manual
4	2	Brief account of important groups of bacteria - Archaeobacteria, Spirochetes,
5	2	Mycoplasma, Actinomycetes, Photosynthetic bacteria,
6	2	Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria.
7	3	Fungi – characteristics, morphology, reproduction, physiology, classification

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	– Fungi of special interest - Mucor, Rhizopus, Penicillium, Neurospora
9	3	Agaricus, Saccharomyces, Candida, Lichens, mycorrhiza
10	4	Algae - occurrence, importance, characteristics, classification
11	4	Algae of special interest – Chlamydomonas, Euglena, Volvox, diatoms
12	4	– Protozoa - occurrence, free-living, symbiotic, morphology, reproduction, classification
13	5	Protozoa of special interest – Amoeba, Paramecium Viruses - general characteristics
14	5	morphology, classification – viruses of bacteria, plants, animals, human beings
15	5	T4 phage, TMV, rabies, HIV as examples

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LESSON PLAN

Name of the Staff	**RAMAKRISHNAN R Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19ABC202 : ADVANCED BIOCHEMISTRY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definition – Classification of Enzymes
2	2	Mechanism of Enzyme action – Lock & key & induced fit model
3	2	Specifity – Factors affecting enzyme activity – pH, temperature & substrate concentration.
4	2	MM Equation, Allosteric enzymes
5	2	Enzyme Inhibition – Irreversible – Reversible
6	2	Competitive, uncompetitive, non competitive inhibitions
7	3	Jaundice- Classification – Biochemical findings

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	DM – Classification – Complications – Diagnosis – Treatment
9	3	Gout – obesity – definition, causes, symptoms & prevention
10	5	Enzymes –isoenzymes-functional and non functional enzymes
11	5	Diagnostic enzymes associated with liver disorder and myocardial infarction.
12	5	Blood glucose, urea, uric acid, TG,
13	5	Serum alkaline phosphatase ,calcium, total protein, electrolytes-significance and normal levels
14	1	Previous ear Question Paper Revision
15	2	Previous ear Question Paper Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	English Speech Sounds-Consonants Meeting People, Exchanging Greetings & Taking Leave Introduction People to Others
2	1	Prose: Forgetting- Robert Lynd Letter writing- informal letters The sentence Parts of speech
3	2	Speech sounds- pure vowels Giving personal information Talking about people Poem: Mending wall Letter writing- formal letters
4	2	Nouns- classes and Gender Nouns- Numbers and case Adjectives Comparison of adjectives
5	3	Pronouns- Demonstrative, indefinite, interrogative Pronouns- relative Poem: time and love - William Shakespeare
6	3	Dipthongs Taking and leaving messages Making enquiries on the phone Dailogue writing Articles Pronouns- personal, reflexive and Emphatic
7	3	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	1 CIA Examination
9	4	Phonetic transcription (words) Answering the telephone and asking for someone Reading comprehension
10	5	Short story: The Selfish Gaint- Oscar Wilde Dealing with wrong number
11	4	Voiced and voiceless Mother Teresa- John Frazer
12	4	The best laid plans- Farrell Mitchell Verbs- transitive and intransitive Verbs-Active and passive voice
13	5	Verbs- Mood and tense Concord or agreement of the verb with the subject
14	5	Revision
15	5	II CIA Examination

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ISABELLA**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making request and responding to request Thanking someone and responding to thanks
2	1	Prose: How to be a doctor- Stephen leocock Report writing
3	1	Precis writing Non- finite verbs Strong and weak verbs
4	1	Strong and weak verbs The auxiliaries Strong and weak forms in transcription
5	2	Poem: Auguries of innocence- William Blake Note making Inviting, accepting and refusing an invitation Apologising and responding to an apology Prose: My visions for India- A.P.J Abdul kalam
6	3	The relationship between spelling and sound Paying compliments, showing appreciation, offering encouragement and responding to them. Asking for, giving and refusing permission.
7	3	Punctuation and capital

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA EXAMINATION
9	4	Sentence transcription Describing daily routines Paragraph writing
10	4	Personal details Poem: If by Rudyard Kipling The uses of prefixes and suffixes
11	4	One act play: The merchant of Venice by William Shakespeare
12	5	Transcribing short passages Use of wrong tenses
13	5	Biography; Kiran Bedi by parmesh dangwal Asking for directions and giving directions
14	5	Revision
15	5	II CIA EXAMINATION

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Porananuru agananuru
2	1	Kurunthogai nattrenai iengurunuru
3	1	Kalithogai parepadal
4	4	Ilakkeyavaralaru
5	4	Kezkanagunulgal
6	3	Therugural
7	3	Therugural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhitheren
9	5	Mozhitheren
10	4	Patthupattu
11	2	Nadunalvadai
12	2	Nadulalvadai
13	2	Serupanattupadai
14	2	Mathuraikanchi
15	2	Mullaipattu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**AZCMB301 : CLASSICAL GENETICS & BIOSTATISTICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Unit – II : Recombination in Eukaryotes : Crossing over – Mechanism- factors controlling crossing over – construction of
2	2	mitotic and meiotic crossing over –
3	2	somatic and germinal crossing over – significance of crossing over -
4	2	chromosome maps –chromosomes – size, shape, structure, types and physiology of chromosomes.
5	3	Pedigree analysis – eugenics and euphenics –
6	3	inbreeding, outbreeding and hybrid vigour - population genetics.
7	4	BIO-STATISTICS Unit – IV: Introduction – Scope – Definition –Data collection –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Classification of Data – Tabulation of Data –
9	4	Diagramatic, Graphical presentation of Data – Histogram
10	4	Frequency polygon – Oogive curves
11	4	Measures of central tendency - Arithmetic mean –
12	4	Median – Mode
13	4	Methods of data collection – – . –
14	4	standard deviation– mean deviation
15	4	skewness – kurtosis.

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LESSON PLAN

Name of the Staff	**DEVASENA J Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1Purananuru padal no 183,192 1.2Agananuru padal _02,104 1.3Kurunthogai padal 3,40 1.4 Narrinai Padal149,110
2	1	1.5.Igkurunuru _vatgaipathu1-5
3	1	1.6Kalithogai-palaikali 9,11 1.7Paripadal Thimal3pal
4	4	4.1Ilakkiya varalaru
5	4	4.5Kizkanakil Neethi Nolgal
6	3	3.1Ariudami 3.2 Natpo araythl
7	3	3.3Polavinunukam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran 5.1Pattirigaikalil seithi varaithl 5.2 churiki varathal
9	5	Narkanal
10	4	Pathuppatu
11	2	Nadanalvadai1-62
12	2	Nadanalvadai1-62
13	2	Cipanartupadi kadai azuvallagal
14	2	Mathraikanchi
15	2	Mullai patu padarai oyapu

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LESSON PLAN

Name of the Staff	**Dr. S. Umamageswari**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock interviews/Actual interviews Facing an interview Tele interview
2	1	Drama :Julius Caesar by William Shakespeare Novel:The count of Monte Cristo Description
3	2	Words often confused Seminar skills Drama : Macbeth by William Shakespeare
4	2	Novel:The count of monte cristo Idioms and phrases
5	3	Homonyms and similar words Tele - conference
6	3	Handling customers or clients Receiving visitors
7	3	Drama:Henry lV part 1 - play out a play Novel: The count of monte cristo The use of graphics

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA exam
9	4	Homophones Booking hotel accommodation Making small talk and telling stories
10	4	Drama:As you like it- pattern of love Novel:The count of monte cristo Negotiations
11	5	Group discussion
12	5	Making appointment Cancelling and rescheduling appointment
13	5	Drama:Hamlet - Churchyard Novel:The count of monte cristo Writing review of books
14	0	II CIA exam
15	0	Revision

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LESSON PLAN

Name of the Staff	**JOHN MILTON D Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**MB404S : MICROBIAL GENETICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DNA as the genetic material, Grifth experiment, Harshey and Chase experiment structure and types of DNA
2	1	Denaturation and renaturation, RNA as the genetic material, types of RNA
3	2	Organisation or prokaryotic and eucaryotic genome, plasmids, chromosome
4	2	Transposons, gene concept, genetic code
5	3	Replication of DNA, enzymology of DNA replication, mutation
6	3	Carcinogenicity testing DNA damage and repair
7	3	Types of mutation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Gene expression, concept of genes,transcription, post transcriptional modification in prokaryotes and eukaryotes
9	4	Translation, mechanism of translation
10	4	Lac operon and trp operon
11	5	Lytic and lysogenic cycles of bacteriophage, mechanism of bacteriophage life cycles,
12	5	Transformation, mechanism of transformation
13	5	Conjugation and transduction, specialised transduction and generalized transduction
14	4	Revision
15	5	Revision

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**AOBI301 : BIOINSTRUMENTATION**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	units of measurement of solutes in solution,
2	1	Normality, Molality Percentage solution. Examples for this concept.
3	1	Electrophoresis – introduction
4	1	Electrophoresis – Factors affecting migration rate –
5	1	Tiselius Moving Boundary Electrophoresis,
6	1	Paper electrophoresis,
7	1	SDS – PAGE.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	SDS – PAGE. =instrumentation
9	5	Differential, .centrifugation
10	5	Density Gradient,
11	5	,Isopycnic
12	5	Rate Zonal Centrifugation
13	5	differential Centrifugation.
14	5	APPLICATIONS OF differential centrifugationv
15	5	overview of centrifugation

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LESSON PLAN

Name of the Staff	**KRISHNAN R**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**MB303S : IMMUNOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Infection , Immunity and Antigens
2	1	Classification of infections, Sources of infection, Mode of transmission,
3	1	Immunity and its types, Active and passive immunity - Antigens and its characters, Types of antigens, and biological classification of antigen
4	2	Immunoglobulin structure, types of Ig, Abnormal antibodies
5	2	Antigen and Antibody reactions , Precipitation reactions, immunodiffusion reactions, Agglutination test with and examples
6	2	Eliza technique, RIA method, Fluorescence technique, Western blotting methods, Immunoprecipitation methods.,
7	3	Complement system and pathways such as classical , Lectin and alternate pathways.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cells and organs of immune system
9	3	Major Histocompatibility complex and its types
10	4	Immune responses - Cell mediated and Humoral immune response, Hypersensitivity and its types.
11	4	Types of Hypersensitivity Type 1, 2, 3, and 4
12	4	ABO blood grouping , Autoimmune diseases , and Autoimmunity
13	5	Autoimmune disorders, types and treatment
14	5	Transplantation immunology
15	5	Tumor immunology, ABO blood transfusion and deficiencies

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**AZCMB301 : CLASSICAL GENETICS & BIOSTATISTICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	History of genetics – Mendel's experiments: monohybrid, dihybrid Cross -
2	1	hybrid vigour – pleiotropism - epistasis - lethal genes –
3	1	atavism –polygenic inheritance Multiple Alleles and linkage -
4	1	ABO Blood Group inheritance - Rh factor – linkage and linkage group.
5	3	DNA as the genetic material
6	3	structure of DNA,
7	3	euploidy - aneuploidy

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	chromosomal aberarrations
9	5	Correlation – simple correlation
10	5	Rank correlation – Regression – Probability
11	5	Addition theorem – Multiplication theorem – Test of significance –
12	5	Hypothesis testing – Null hypothesis
13	5	Large sample test – small sample test (Students ‘t’ test)– chi-square test – standard error
14	5	ANOVA (Analysis of variance)
15	5	one way ANOVA

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**AZMB402 : SOLID WASTE MANAGEMENT**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Waste – classification, quantification, solid waste management and disposal, source and generation of solid wastes – characterization, composition and classification,
2	1	physico-chemical properties - Municipal solid wastes: Collection, storage and transportation – disposal methods – sanitary land fills, shreeding and pulverizing, baling,
3	1	incineration, composting, vermicomposting, recycling – energy recovery from wastes – municipal wastes management and handling rules (1999)
4	2	Industrial solid wastes and description – health hazards – collection and storage – treatment and disposal -
5	2	liquid wastes – primary, secondary and tertiary treatments – water pollution and their effects on animals and plants –
6	2	water quality standards – gaseous pollution – types and sources – air pollution control.
7	3	Generation – legal aspects and environmental concern – Bio-medical waste management and handling rules, 1998 – storage, handling and transportation of bio-medical wastes – disposal technologies -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Hazardous wastes: Definition – characteristics – sources and transportation – radioactive wastes – half life, mode of decay, effect on plants, animals and man.
9	3	treatment methods; physical, chemical and biological methods – site remediation – waste minimization – hazardous waste rules, 1989.
10	4	Characteristics, types – Indian species – suitable species for vermicomposting – digestion, decomposition and humification – role of microorganisms -
11	4	Earthworm culture: Steps involved in the culture of indigenous and exotic species of earthworms – physical, chemical and biological requirements – protection of worms from predators – enemies of earthworms - Organic wastes:
12	4	Definition – types and sources of various organic wastes – utilization of organic wastes in vermiculture and vermicomposting.
13	5	Definition – types of vermicomposting – requirements – advantages – precautionary measures.
14	5	nutrients enhancement of vermicompost – effect of vermicomposting in the soil fertility - Economics of vermicomposting.
15	5	Small scale and large scale applications of vermicomposting – loan facilities – marketing strategies.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**AZMB402 : SOLID WASTE MANAGEMENT**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Industrial solid wastes and description – health hazards – collection and storage – treatment and disposal -
2	2	liquid wastes – primary, secondary and tertiary treatments – water pollution and their effects on animals and plants –
3	2	water quality standards – gaseous pollution – types and sources – air pollution control.
4	3	Generation – legal aspects and environmental concern – Bio-medical waste management and handling rules, 1998
5	3	storage, handling and transportation of bio-medical wastes – disposal technologies - Hazardous wastes:
6	3	Definition – characteristics – sources and transportation –
7	3	radioactive wastes – half life, mode of decay, effect on plants, animals and man – treatment methods;

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	physical, chemical and biological methods – site remediation – waste minimization – hazardous waste rules, 1989.
9	5	Definition – types of vermicomposting –
10	5	requirements of vermicomposting
11	5	advantages of vermicomposting
12	5	precautionary measures of vermicomposting
13	5	nutrients enhancement of vermicompost – effect of vermicomposting in the soil fertility -
14	5	Economics of vermicomposting: Small scale and large scale applications of
15	5	vermicomposting – loan facilities – marketing strategies.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SHEELA**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	– energy resources: energy needs, renewable and non-renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	Structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	–India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – Insitu and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management causes, effects, control measures
12	4	Disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management.
14	5	Environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation.
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SUGANYA C**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience
2	1	Thanking the gathering and organizing of an event Fritz karinthy - Refund (one act play) Publicity literature
3	2	Quit india - Mahatma gandhi Trust with destiny - jawaharlal Nehru
4	2	Giving one's opinion on current national /social issues Anton chekhov - The Bear (one act play) Spotting Errors
5	3	Gettysburg address _abraham lincoln I have a dream_Martin Luther king Sample news items
6	3	Preparing news items of local events and speaking about them One act play the hour of truth E_mail writing
7	1	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA EXAMINATION
9	4	Inaugural address _John. F. Kennedy Prepared to die-nelson mandela
10	4	Presentation skill Autobiography :sorrows of childhood_Charles chaplin Resume writing
11	5	Some useful expressions Biography :Marie curie_colin Mitchell
12	5	Speech writing Biography :sarojini naidu _padmini sengupta Minutes writing
13	2	Revision
14	2	II CIA EXAMINATION
15	3	Overall Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PARIMALA CELIA M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**MB507S : MEDICAL BACTERIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Staphylococci, Streptococci
2	1	Pneumococci, Neisseria meningitidis
3	1	Neisseria gonorrhoea, Corynebacteria
4	2	Escherichia coli, Klebsiella, Salmonella typhi
5	2	Salmonella paratyphi, Shigella
6	2	Proteus, Vibrio cholerae, Pseudomonas
7	3	Bacillus anthracis, ,Clostridium perfringens,, Clostridium tetani

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Clostridium botulinum, Mycobacterium tuberculosis, Mycobacterium leprae and Atypical mycobacteria
9	3	Yersinia, Haemophilus and Helicobacter
10	4	Francisella, Brucella
11	4	Bordetella, Legionella
12	4	Listeria
13	5	Rickettsiae, Chlamydia
14	5	Spirochaetes, Mycoplasma
15	5	Actinomycetes

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PARIMALA CELIA M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**6**
Subject	**MB612S : BIOTECHNOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition and History-r DNA technology
2	1	Restriction endonuclease, RNases, Ligases, Polymerases-Cloning vectors-types and examples
3	1	pBR322- Lambda phage vector- DNA ligation
4	2	Chemical synthesis of DNA, DNA sequencing
5	2	cDNA, Hybridisation techniques
6	2	PCR, Genomic library
7	3	Enzyme technology, Enzyme immobilisation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Microalgae, Seaweeds
9	3	Biological Hydrogen production
10	4	Genetic engineering of plants-Electroporation- Gene gun-Particle bombardment
11	4	Ti plamid vectors-Applications- Transgenic plants-Insect resistance-Stress tolerance
12	4	Viral resistant plants-Genetically modified foods
13	5	Transgenic animals-Reteroviral vector method-DNA microinjection method
14	5	Applications of recombinant DNA technology- Recombinant products-Insulin- tPA
15	5	Vaccines- Gene therapy- Patents IPR

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JOHN MILTON D Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**6**
Subject	**MB611S : SOIL AND AGRICULTURAL MICROBIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Soil physical and chemical properties, introduction to soil microorganisms- bacteria, fungi, actinomycetes, protozoa, nematodes, role of microbe in soil fertility
2	2	Winogradsky column, microbial interaction with plants- mycorrhiza, phyllosphere, rhizopshere, plant growth promoting bacteria
3	2	Organic matter decomposition, humus formation, biodegradation of pesticide and pollutants in soil
4	3	Biogeochemical cycles- carbon cycle, Phosphorus cycle, Sulphur cycle, nitrogen cycle, nitrogen fixation
5	3	Bio fertilizer example and advantages, biopesticides
6	3	Examples for biopesticides
7	4	Plant pathogenic microorganisms-disease symptoms, mode of entry, control measures- Diseases caused by bacteria

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Bacterial wilt of potato, Citrus canker, leaf blight of paddy
9	4	Diseases caused by fungi- false smut of paddy, leaf smut of rice, red rot of sugarcane, tikka disease of ground nut
10	5	Diseases caused by viruses- tungro viral diseases, virus diseases of papaya and sugarcane
11	5	Bunchy disease of banana, leaf curl of tomato, diseases caused by mycoplasma- little leaf of Brinjal
12	5	Diseases due to nematodes- root knot of vegetables and seed borne diseases
13	5	Revision
14	4	Revision
15	4	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**EMB510S : APPLIED MICROBIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Algal technology, spirulina cultivation, Factors Affecting biomass production, Requirements for growth of spirulina
2	1	Algal tanks, Avoiding contamination, Mass cultivation of spirulina, semi natural lake system, Artificial built cultivation system
3	1	Clean Water system, Harvesting the biomass and product recovery, benefits from spirulina
4	2	Mushroom production, Mushroom biology, Classification and types, Edible and poisonous mushrooms
5	2	Spawn and Spawning, Culture media, preservation and storage of culture, Crop management after spawning
6	2	Casing, Fruiting,Harvesting, processing, Mushroom recipes
7	3	Biofertilizer, Bacteria, Bacterization, Mass cultivation of Rhizobium, Azotobacter

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mass cultivation of Azospirillum and Phosphate solubilizers, Blue green algae, Algalization
9	3	Mass cultivation of Blue green algae. Azolla as Biofertilizer, Mycorrihzae as biofertilizer
10	4	Biogas production, introduction, interaction between various microbial groups
11	4	Factors affecting, Design of digester, Distribution of anaerobic organisms
12	4	Methanogens and Methanogenesis, Alternate feed stock and other wastes, Kinetics of fermentation, use of spent slurry
13	5	Bioremediation, Clean up Biotechnology
14	5	Microbial removal of metal ions, soil bioremediation, Removal of oil spill
15	5	Biodegradation of hydrocarbons, Genetically modified microorganisms

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LESSON PLAN

Name of the Staff	**SWAMINATHAN C Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**MB508S : MEDICAL PARASITOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Definition - Host parasite relationship
2	1	Transmission of parasites - Pathogenesis - Clinical diagnosis
3	1	Laboratory diagnosis - Treatment
4	2	Entamoeba histolytica, Entamoeba coli
5	2	Giardia intestinalis, Trichomonas vaginalis
6	2	Leishmania donovani, Trypanosoma cruzi
7	3	Plasmodium falciparum, Plasmodium vivax

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Balantidium coli, Cryptosporidium
9	3	Pneumocystis carinii
10	4	Taenia saginata, Taenia solium
11	4	Schistosoma haematobium, Fasciola hepatica
12	4	Trichuris trichiura
13	5	Enterobius vermicularis, Ancylostoma duodenale
14	5	Ascaris lumbricoides
15	5	Wuchereria bancrofti, Brugia malayi

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LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thrumullar, Thoderadipodi azhvar
2	1	Thrunavukarasar, Manickavasakar
3	1	Andal Patinathar
4	4	Azhvarkal
5	5	Puzhagu porul
6	5	Mozhipayarupu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Throgasuvadugal
9	3	Throgasuvadugal
10	3	Throgasuvadugal
11	4	Sitruelackeyam
12	4	Eslamum tamilum
13	2	Kumarakurbarar
14	2	Nanthi kalabagam
15	2	Muckudar pallu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Parathadesam , Vallarar
2	1	Asasiyajothi , Kannadasan
3	1	Parathithasan - ulagam unnudaiyathu
4	3	Erupatham nurtrandu kavinargal
5	3	Sirukathaen thortramum valarchium
6	4	Sirugathaigal - jail
7	5	Elakkanam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	abdulrahuman
9	2	m. matha
10	2	vairamuthu
11	2	thamilachi
12	2	natupurapadel
13	3	puthukavithai, jail
14	3	natupura ilakiyam, minnal
15	4	kathavu - elutha mareantha kathai

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular- Thirumanthiram, thondaradipadi yazhvar thirumalai
2	1	Thirunavukkarasar thevaram, Manikkavasakar - thiruvasakam
3	1	Aandal thiruppavai, pattinathar padalkal
4	4	Sampanthar, sundhrar mattum, Aazhvargal- Mutjal Aazhvar movar mattum
5	5	Mozhi thiran Ariviyal, Aatsithurai, kanini, puzhanku porutgal kalaisol Aakkam
6	5	Mozhipeyarpu paguthi
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai - thuroga suvadugal - ve.Eraiyanbu 1-6
9	3	Thuroga suvadukal 7-10
10	3	Thuroga suvadugal 11-13
11	4	Sitrilakkiyankal thoothu, Ula, Kuravanchi, Anthathi
12	4	Islamum Thamizhum
13	2	Masthan sagipu Paraparakanni, Kumarakuruparar Pillai thamizh
14	2	Kalingathu parani, Nanthi kalambagam
15	2	Mukkudar pallu

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LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**19MB101 : FUNDAMENTALS OF MICROBIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction, History (Discoveries , Contributions of Women Scientist in Microbiology)
2	1	Contributions of women's Scientist in microbiology, Scope of microbiology
3	1	Employability in microbiology
4	2	Morphology, shape, Size, Arrangement of Bacteria, Structure of bacterial cell
5	2	Structure and functions of cell organelles (Structure found outside the cell wall)
6	2	Structure found in with in the cell wall, Structure of Endospore
7	3	Microscopy- Simple, Compound, Dark field

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Microscope- Phase contrast, Fluorescent, Electron (SEM and TEM)
9	3	Stains and Dyes, Staining Methods
10	4	Sterilization, Physical agents
11	4	High temperature, Low temperature, Desiccation
12	4	Osmotic pressure, Radiation, Filtration
13	5	Sterilization- Chemical agents, Phenol and Phenolic compounds, Alcohol, Halogens
14	5	Heavy metals and their compounds, Dyes, Synthetic detergents, Quaternary ammonium, Aldehyde s and Gaseous agents
15	5	Antibiotics, Classification, Mode of action, Antifungal and Antiviral agents

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LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19MB204 : MICROBIAL METABOLISM**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principle of Energetics
2	1	Oxidation - Reduction reaction
3	1	Respiratory chain
4	2	Energy production by anaerobic process Glycolysis
5	2	Energy production by anaerobic process Pentose phosphate pathway
6	2	Energy production by anaerobic process ED pathway, Fermentation
7	3	Energy production by aerobic process TCA cycle

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Energy production by aerobic process Catabolism of lipids
9	3	Energy production by aerobic process Catabolism of Protein
10	4	Respiration Without oxygen
11	4	Hetrotropic CO2 Fixation
12	4	Glyoxlate cycle
13	5	Photosynthesis (Cyclic & Non -cyclic)
14	5	Mechanism of ATP Synthesis
15	5	Bioluminescence

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LESSON PLAN

Name of the Staff	**RAMAKRISHNAN R Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19ABC202 : ADVANCED BIOCHEMISTRY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Definition – Classification of Enzymes
2	2	Mechanism of Enzyme action – Lock & key & induced fit model
3	2	Specifity – Factors affecting enzyme activity – pH, temperature & substrate concentration.
4	2	MM Equation, Allosteric enzymes
5	2	Enzyme Inhibition – Irreversible – Reversible
6	2	Competitive, uncompetitive, non competitive inhibitions
7	3	Jaundice- Classification – Biochemical findings

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	DM – Classification – Complications – Diagnosis – Treatment
9	3	Gout – obesity – definition, causes, symptoms & prevention
10	5	Enzymes –isoenzymes-functional and non functional enzymes
11	5	Diagnostic enzymes associated with liver disorder and myocardial infarction.
12	5	Blood glucose, urea, uric acid, TG,
13	5	Serum alkaline phosphatase ,calcium, total protein, electrolytes-significance and normal levels
14	1	Previous ear Question Paper Revision
15	2	Previous ear Question Paper Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**ABC101B : Basic Biochemistry**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Shift II: Amino acid classification
2	2	Shift II: Acid base balance, essential and non essential amino acids
3	2	Shift II: Standard and non standard amino acids
4	2	Shift II: Zwitter ions, isoelectric point, ampholytes
5	2	Shift II: Reactions with Edmans reagent, Sangers reagent , Vanslyke reaction and ninhydrin reactions. Classification of protein based on size, solubility.
6	3	Chemical composition and function, structure of proteins, peptide bond, primary, secondary, tertiary, quaternary structure of proteins.
7	3	Physical and chemical properties of proteins

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Bond stabilization of protein
9	3	Shift II: Physical properties, salting in and out, denaturation
10	5	Shift I & II: Definition and classification of lipids
11	5	Shift I & II: Simple, compound and derived lipids5
12	5	Shift I & II: Classification and nomenclature of fatty acids-saturated fatty acids, butyric acids and stearic acid, unsaturated fatty acids-oleic, linoleic and linoleic acid.
13	5	Shift I & II: Physical properties of emulsification and chemical properties of saponification number, rancidity, acid number, iodine number and Richert –Meissl Number.
14	123	Revision
15	45	Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**19ABCP11 : BIOCHEMISTRY PRACTICAL**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	• Estimation of glycine
2	2	• Estimation of ascorbic acid
3	2	• Estimation of glucose
4	2	Qualitative analysis of carbohydrates - Glucose and fructose
5	2	• Qualitative analysis of carbohydrates - Maltose and lactose
6	2	• Qualitative analysis of carbohydrates - Starch and sucrose
7	2	Qualitative analysis of amino acid- tyrosine

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Qualitative analysis of amino acid- tryptophan
9	2	Qualitative analysis of amino acid-Arginine, histidine
10	2	• Preparation of starch from potato
11	2	• Preparation of casein from milk
12	2	preparation of albumin from egg
13	2	Preparation of lactalbumin from milk
14	2	Model practical
15	2	Model practical

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19ABCP22 : BIOCHEMISTRY PRACTICAL**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Volumetric analysis of glycine by sorenson's titration method
2	2	Volumetric analysis of ascorbic acid
3	2	Estimation of Glucose by Benedicts Method
4	2	IV
5	2	Clotting time
6	2	Erythrocyte sedimentation rate by sahli's method
7	2	bleeding time

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Blood grouping
9	2	Model practical examination
10	2	Model practical examination
11	2	Model practical examination
12	2	Revision
13	2	Revision
14	2	Revision
15	2	Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19ABC202 : ADVANCED BIOCHEMISTRY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Glycolysis pathway and its energetics
2	1	Kreb's cycle and its energetics
3	1	Hexose Mono phosphate,
4	1	Gluconeogenesis pathway
5	1	Transamination, deamination,urea cycle
6	3	Diabetes Mellitus, Obesity
7	3	Jaundice, Gout

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Isoenzymes, functional and non-functional enzymes
9	5	Myocardial infarction
10	5	Serum enzymes in liver diseases
11	5	Normal values and significance of glucose, triglycerides, protein
12	5	Revision
13	5	Revision
14	5	Revision
15	5	Revision

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LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Inviting someone 2. Expressing Gratitude
2	1	3. Complimenting and Congratulating
3	1	4. Starting a conversation with a stranger.
4	1	5. Asking for help 6. Framing Questions and Answers
5	1	7. Apologising 8. Making Request
6	2	1. Audio – Video lessons 2. Telephonic communication / Business
7	2	3. Conversational skill 4. Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	3	1. Building powerful vocabulary 2. Coining related words
10	3	3. Acronym 4. Mispronounced words
11	4	1. Extempore
12	4	2. Elocution
13	5	1. Description 2. Narration
14	2	II CIA
15	5	3. Paragraph Writing

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LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Ramalinga adigal
2	1	Parathiyar and Parathidasan
3	1	Kavimani thesiyavinayagam pillai (asiya jothi)
4	3	Erupatham nutrandu kavinargal
5	3	Serugathaen thotramum valarchium
6	5	Elakkanam (vallotru megum edam mega edam)
7	4	Sirukathaigal - kathavu, kudumpathil oru napar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Erupatham nootrandu kavinargal
9	3	Sirugathaien thotramum valarsiyum
10	4	Sirukathaigal-jail, Minnal, ezhuthamaranthagathai
11	2	Kavithai-Abdul raguman, Medtha
12	2	Vairamudthu kavithaigal, Thamilatchi kavithai
13	2	Nattupura padalgal
14	3	Puthukavithaen thodramum valarchium
15	3	Nattupura elakkiyangal

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LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

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LESSON PLAN

Name of the Staff	**SHEELA**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**19MB102 : MICROBIAL TAXONOMY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	classification , haeckel's whitaker's
2	1	Prokaryotes and Eukaryotes,- Evolution of microorganisms, Taxonomical ranks,
3	1	Taxonomical ranks, Binomial Nomenclature, Characteristics used in Taxonomy
4	2	Outline of bacterial classification according to Bergey's manual
5	2	Brief account of important groups of bacteria. Archaeobacteria, Spirochetes, Mycoplasma,
6	2	Actinomycetes, Photosynthetic bacteria, Cyanobacteria, Methanogenic bacteria, Sulfate utilizing bacteria.
7	3	Fungi – Characteristics, morphology, reproduction, physiology, ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Classification – Fungi of special Interest – Mucor , Rhizopus , Penicillium
9	3	Neurospora, Agaricus , Saccharomyces's, candida, Lichens, Mychorrhiza,
10	4	Algae – Occurrence, Importance, Characteristics, classification- ,
11	4	Algae of special Interest- Chlamydomonas, Euglena, Volvox , Diatoms- Protozoa – Occurrence, Free- Living, Symbiotic.
12	4	Morphology reproduction, classification – Protozoa of special Interest- Amoeba , Paramecium
13	5	Viruses – General Characteristics, Morphology, classification,
14	5	Viruses of bacteria , plants, Animals, Human beings
15	5	T4 phage , TMV, Rabies , HIV as Examples.

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LESSON PLAN

Name of the Staff	**SHEELA**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19MB203 : GROWTH AND NUTRITION OF MICROORGAISMS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nutrient requirements of microorganisms
2	1	Growth factors
3	1	Nutritional types
4	2	Culture media - Pure culture
5	2	Maintenance and preservation of cultures
6	2	Environmental factors affecting growth
7	3	Microbial growth – exponential growth

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Growth curve - Measurement of microbial growth
9	3	Batch and Continuous culture - Synchronous growth
10	4	Sporulation - Bacterial reproduction
11	4	Motility of bacteria – Flagellar and gliding
12	4	Chemo-, photo-, Aero-, Magneto- taxis
13	5	Uptake of nutrients – Simple
14	5	Passive, Facilitated diffusion,
15	5	Active transport, Group translocation

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LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I GROUP ACTIVITY 1. Spell bee 3. Quiz game
2	1	UNIT – I GROUP ACTIVITY 2. Story telling
3	2	Unit-II TALK TOGETHER 1.Seminar 2. Debate
4	2	Unit-II TALK TOGETHER 3. Group Discussion
5	3	Reviewing Skills 1. Book Review
6	3	2. Film Review
7	3	I C.I.A

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Public Speaking Speech on current Events Welcome Addresses
9	4	Public Speaking Vote of thanks report writing
10	5	Unit V 1. Narrating Dreams
11	5	Unit V 2. Narrating Ambition Syllabus Completed
12	5	Students Talk
13	5	II CIA
14	5	Students Presentation
15	5	Revision

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**AZCMB301 : CLASSICAL GENETICS & BIOSTATISTICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Unit – II : Recombination in Eukaryotes : Crossing over – Mechanism- factors controlling crossing over – construction of
2	2	mitotic and meiotic crossing over –
3	2	somatic and germinal crossing over – significance of crossing over -
4	2	chromosome maps –chromosomes – size, shape, structure, types and physiology of chromosomes.
5	3	Pedigree analysis – eugenics and euphenics –
6	3	inbreeding, outbreeding and hybrid vigour - population genetics.
7	4	BIO-STATISTICS Unit – IV: Introduction – Scope – Definition –Data collection –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Classification of Data – Tabulation of Data –
9	4	Diagramatic, Graphical presentation of Data – Histogram
10	4	Frequency polygon – Oogive curves
11	4	Measures of central tendency - Arithmetic mean –
12	4	Median – Mode
13	4	Methods of data collection – – . –
14	4	standard deviation– mean deviation
15	4	skewness – kurtosis.

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**AZMB402 : SOLID WASTE MANAGEMENT**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Introduction (20 Hrs) Waste – classification, quantification, solid waste management and disposal, source and generation of solid wastes – characterization, composition and classification,
2	1	physico-chemical properties - Municipal solid wastes: Collection, storage and transportation – disposal methods – sanitary land fills, shreeding and pulverizing,
3	1	baling, incineration, composting, vermicomposting, recycling – energy recovery from wastes – municipal wastes management and handling rules (1999)
4	2	Unit II: Industrial wastes: Industrial solid wastes and description – health hazards – collection and storage – treatment and disposal
5	2	liquid wastes – primary, secondary and tertiary treatments – water pollution and their effects on animals and plants – water quality standards –
6	2	gaseous pollution – types and sources – air pollution control.
7	3	Unit III: Bio-medical wastes: (20 Hrs) Generation – legal aspects and environmental concern – Bio-medical waste management and handling rules, 1998 – storage, handling and transportation of bio-medical wastes – disposal technologies -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Hazardous wastes: Definition – characteristics – sources and transportation – radioactive wastes – half life, mode of decay, effect on plants, animals and man
9	3	treatment methods; physical, chemical and biological methods – site remediation – waste minimization – hazardous waste rules, 1989.
10	4	Unit IV : Earthworms: (20 Hrs) Characteristics, types – Indian species – suitable species for vermicomposting – digestion, decomposition and humification – role of microorganisms - Earthworm culture: Steps involved in the culture of in...
11	4	physical, chemical and biological requirements – protection of worms from predators – enemies of earthworms -
12	4	Organic wastes: Definition – types and sources of various organic wastes – utilization of organic wastes in vermiculture and vermicomposting.
13	5	Unit V: Composting technology: (20 Hrs) Definition – types of vermicomposting – requirements – advantages – precautionary measures - nutrients enhancement of vermicompost –
14	5	effect of vermicomposting in the soil fertility - Economics of vermicomposting:
15	5	Small scale and large scale applications of vermicomposting – loan facilities – marketing strategies.

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LESSON PLAN

Name of the Staff	**JOHN ROBERT J**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**AOBI301 : BIOINSTRUMENTATION**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	DEFINE PH AND POH
2	2	BUFFERS AND TYPES OF BUFFERS, MECHANISM OF BUFFERING ACTION- FIRST LINE & SECOND LINE DEFENSE
3	2	BUFFER IN BODY FLUIDS- HEMOGLOBIN BUFFER
4	2	PHOSPHATE & PROTEIN BUFFERS
5	2	BICARBONATE BUFFERS
6	2	Measurement of pH using indicator
7	2	glass electrode - principles, methods, & it's applications

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	calomel electrode
9	5	definition of centrifugation & principles of centrifugation
10	5	types of centrifugations
11	5	types of rotors using centrifuge
12	5	analytical and preparative ultra centrifugation
13	5	difference between sedimentation rate & sedimentation co-efficient
14	5	sverd berg unit, and density gradient
15	5	isopycnic and rate zonal centrifugation

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ETTUTHOGAI 1.1. PURANANOORU - 183, 192 1.2. AGANANOORU - 02, 104
2	1	1.3. KURUNTHOGAI- 03, 40 1.4. NATTRINAI - 149, 110 1.5. INGURUNOORU - VETGAIPATHTHU 1-5
3	1	1.6. KALITHOGAI - PAALAIKALI 9,11 1.7. PARIPAADAL - THIRUMAAL 3 VATHU PAADAL
4	4	4.1. ETTUTHOGAI
5	4	4.3. PATHINENKEEZH KANAKGIL NEETHI NOOLGAL
6	3	THIRUKKURAL 3.1. ARIVUDAMAI 3.2. NATPAARAITHAL
7	3	3.3. PULAVINUNUKKAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.2. SURUKKI VARAITHAL
9	5	5.3. NERKANAL
10	4	4.2. PATHTHUPPATTU
11	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 1-30
12	2	2.1. NEDUNAL VADAI - KARGALA VARUNANAI 31 - 62
13	2	2.2. SIRUPANATTRU PADAI - EZU VALLALGALIN SIRAPPU
14	2	2.3. MATHURAIKANJI
15	2	2.4. MULLAIPPATTU

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Welcoming and gathering NARRATION VOTE OF THANKS INTRODUCING A GUEST TO AUDIENCE
2	1	Refund -ONE ACT PLAY PUBLICITY LITERATURE
3	2	QUIT INDIA- MAHATMA GANDHI TRYST WITHDESTINY -JAWAHARAL NEHRU SOCIAL ISSUES
4	2	SPOTTING ERRORS THE BEAR -ONE ACT PLAY
5	3	I HAVE A DREAM - MARTIN LUTHER KING GETTYSBURG ADDRESS- ABRAHAM LINCOLN NEWS REPORT WRITING
6	3	THE HOUR OF TRUTH- ONE ACT PLAY E-MAIL-WRITING
7	3	I- CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Prose Inaugural Address by John F Kennedy Prepared to Die
9	5	Presentation skills Autobiography Sorrows of Childhood by Charles Chaplin
10	5	Resume Writing
11	5	Some useful expressions Speech writing
12	5	Biography Marie Curie by Colin Mitchell
13	5	Biography Sarojini Naidu by Padmini Sengupta Minutes Writing
14	5	II-CIA
15	5	Revision and Seminar

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LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**MB404S : MICROBIAL GENETICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Central dogma of molecular biology, Structure of DNA, Forms of DNA
2	1	DNA as the geneticmaterial Griffith Experiment, Hershey and Chase experiment, Denaturation and Renaturation of DNA
3	1	Structure of RNA, Types of RNA, RNA as the genetic material
4	2	Organization of prokarotic genetic material plasmid
5	2	Organization of eukaryotic genetic material Chromosome, Transposons
6	2	Concept of Gene, Genetic code
7	3	Replication of DNA, Enzymology of Replication

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mutation types, Mutagenic agents, Carcinogenicity test
9	3	DNA Damage and DNA Repair
10	4	Gene Expression, Transcription
11	4	Translation,Post transcriptional modifications in prokaryotes and eukaryotes
12	4	Regulation of transaction, Lac operon, trp operon
13	5	Genetics of bactiophages -Lytic and lysogenic cycle
14	5	Gene transfer mechanisms- Transformation
15	5	Conjugation and Transduction(Generalised and Specialized)

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**AZCMB301 : CLASSICAL GENETICS & BIOSTATISTICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	History of genetics – Mendel's experiments: monohybrid, dihybrid Cross -
2	1	hybrid vigour – pleiotropism - epistasis - lethal genes –
3	1	atavism –polygenic inheritance Multiple Alleles and linkage -
4	1	ABO Blood Group inheritance - Rh factor – linkage and linkage group.
5	3	DNA as the genetic material
6	3	structure of DNA,
7	3	euploidy - aneuploidy

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	chromosomal aberarrations
9	5	Correlation – simple correlation
10	5	Rank correlation – Regression – Probability
11	5	Addition theorem – Multiplication theorem – Test of significance –
12	5	Hypothesis testing – Null hypothesis
13	5	Large sample test – small sample test (Students ‘t’ test)– chi-square test – standard error
14	5	ANOVA (Analysis of variance)
15	5	one way ANOVA

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**AZMB402 : SOLID WASTE MANAGEMENT**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Waste – classification, quantification, solid waste management and disposal, source and generation of solid wastes – characterization, composition and classification,
2	1	physico-chemical properties - Municipal solid wastes: Collection, storage and transportation – disposal methods – sanitary land fills, shreeding and pulverizing, baling,
3	1	incineration, composting, vermicomposting, recycling – energy recovery from wastes – municipal wastes management and handling rules (1999)
4	2	Industrial solid wastes and description – health hazards – collection and storage – treatment and disposal -
5	2	liquid wastes – primary, secondary and tertiary treatments – water pollution and their effects on animals and plants –
6	2	water quality standards – gaseous pollution – types and sources – air pollution control.
7	3	Generation – legal aspects and environmental concern – Bio-medical waste management and handling rules, 1998 – storage, handling and transportation of bio-medical wastes – disposal technologies -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Hazardous wastes: Definition – characteristics – sources and transportation – radioactive wastes – half life, mode of decay, effect on plants, animals and man.
9	3	treatment methods; physical, chemical and biological methods – site remediation – waste minimization – hazardous waste rules, 1989.
10	4	Characteristics, types – Indian species – suitable species for vermicomposting – digestion, decomposition and humification – role of microorganisms -
11	4	Earthworm culture: Steps involved in the culture of indigenous and exotic species of earthworms – physical, chemical and biological requirements – protection of worms from predators – enemies of earthworms - Organic wastes:
12	4	Definition – types and sources of various organic wastes – utilization of organic wastes in vermiculture and vermicomposting.
13	5	Definition – types of vermicomposting – requirements – advantages – precautionary measures.
14	5	nutrients enhancement of vermicompost – effect of vermicomposting in the soil fertility - Economics of vermicomposting.
15	5	Small scale and large scale applications of vermicomposting – loan facilities – marketing strategies.

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LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	1	Manimegalai
3	2	Sevaga sinthamani
4	4	Erattai kappiyam, impermkappiyam
5	4	Insiru kappiyam
6	5	Mozhithiran
7	5	Sutrulavazhikatti, kadithangal, pothukatturai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Kamparamayanam
9	3	Periyapuranam
10	3	Thempavani
11	3	Sirapuranam
12	4	Kirusthava kappiyangal
13	4	Kerusthava kappiyangal
14	4	Esulamiya kappiyangal
15	4	Solar kala kappiyangal

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LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock - interview Facing an interview Tele - interview
2	2	Macbeth - He kills sleep - William Shakespeare Description Words often confused
3	1	Julius Caesar - Funeral Oration - William Shakespeare Seminar skills Idioms and phrases
4	3	Homonyms and similar words Tele- Conferences Henry IV - William Shakespeare
5	3	Handling customers or clients Receiving visitors The use of Graphics The count of Monte Cristo - Alexandre Dumas
6	1	The count of Monte Cristo - Alexandre Dumas
7	2	The count of Monte Cristo - Alexandre Dumas

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	5	As you like it - patterns of Love - William Shakespeare Homophones Negotiations
10	4	Booking Hotel Accomodation Making small talk and telling stories Group discussion
11	5	Making Appointments Cancelling and rescheduling appointment Hamlet- william Shakespeare
12	5	The count of Monte Cristo - Alexandre Dumas
13	5	The count of Monte Cristo - Alexandre Dumas
14	1	Revision
15	2	II CIA

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LESSON PLAN

Name of the Staff	**SHEELA**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**EVS401S : ENVIRONMENTAL SCIENCE**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams
2	1	water resources: over – utilization, floods, drought – mineral resources: exploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	– energy resources: energy needs, renewable and non-renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	Energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics,
6	2	Structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	–India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – Insitu and Ex-situ conservation of biodiversity.
10	4	Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	Noise pollution, thermal pollution and nuclear hazards – solid waste management causes, effects, control measures
12	4	Disposal of wastes – disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management.
14	5	Environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation.
15	5	Environment protection Act – Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**JOSEPH CHRISITAN DANIEL S Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**MBP504S : MEDICAL MICROBIOLOGY PRACTICAL**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Revision of I Year experiments
2	1	Revision of I Year experiments
3	1	Revision of I Year experiments
4	2	Type Study - I
5	2	Type Study - II
6	2	Type Study - III
7	3	Type Study - IV

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Type Study - V
9	3	Type Study - VI
10	4	Type Study - VII
11	4	Type Study - VIII
12	4	Type Study - IX
13	5	Type Study - X
14	5	Revision
15	5	Spotters

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LESSON PLAN

Name of the Staff	**JOHN MILTON D Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**6**
Subject	**MB611S : SOIL AND AGRICULTURAL MICROBIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Soil physical and chemical properties, introduction to soil microorganisms- bacteria, fungi, actinomycetes, protozoa, nematodes, role of microbe in soil fertility
2	2	Winogradsky column, microbial interaction with plants- mycorrhiza, phyllosphere, rhizopshere, plant growth promoting bacteria
3	2	Organic matter decomposition, humus formation, biodegradation of pesticide and pollutants in soil
4	3	Biogeochemical cycles- carbon cycle, Phosphorus cycle, Sulphur cycle, nitrogen cycle, nitrogen fixation
5	3	Bio fertilizer example and advantages, biopesticides
6	3	Examples for biopesticides
7	4	Plant pathogenic microorganisms-disease symptoms, mode of entry, control measures- Diseases caused by bacteria

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Bacterial wilt of potato, Citrus canker, leaf blight of paddy
9	4	Diseases caused by fungi- false smut of paddy, leaf smut of rice, red rot of sugarcane, tikka disease of ground nut
10	5	Diseases caused by viruses- tungro viral diseases, virus diseases of papaya and sugarcane
11	5	Bunchy disease of banana, leaf curl of tomato, diseases caused by mycoplasma- little leaf of Brinjal
12	5	Diseases due to nematodes- root knot of vegetables and seed borne diseases
13	5	Revision
14	4	Revision
15	4	Revision

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LESSON PLAN

Name of the Staff	**SUMITHA D Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**MB505S : FOOD & INDUSTRIAL MICROBIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Food as a substrate for microorganisms - Principles of food preservation - asepsis - removal of microorganisms - high temperature - low temperature
2	1	drying- food additives - radiation - General principles of Contamination, spoilage and preservation - canned food. - Food-borne infections and intoxications
3	1	Food borne disease outbreaks - laboratory testing - preventing measures - Food sanitation – Plant sanitation - quality control - HACCP
4	2	Food fermentations – bread, malted beverages, idly, fermented vegetables, pickles, Oriental fermented foods
5	2	Milk and milk products - fermented dairy products - butter, cheese, yogurt, acidophilus milk
6	2	Spoilage and defects of fermented dairy products - Milk-borne diseases
7	3	General concepts - screening and strain development strategies - raw materials used in media production media optimization

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	foaming - fermentation equipment and its uses – types of fermentors
9	3	Types of fermentation - batch, continuous, dual or multiple, surface, submerged, aerobic, anaerobic
10	4	Downstream process – recovery and purification of products – sterilization
11	4	development of inocula - scale up processes - Production of alcohol and beverages
12	4	Ethanol, beer and wine, vinegar - Organic acids - lactic acid, citric acid
13	5	Industrial production of enzymes - amylase, proteinase
14	5	Amino acid production - glutamic acid and lysine - Production of antibiotics - penicillin
15	5	streptomycin – Role of precursors - Production of Vitamins - riboflavin, cyanocobalamin

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LESSON PLAN

Name of the Staff	**SUMITHA D Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**6**
Subject	**EMB615S : COMPUTER APPLICATIONS IN BIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to computers – Types of computers – Generation
2	1	– Applications of computers – Input and Output devices
3	1	– ROM, RAM- Internet
4	2	Introduction to Bioinformatics – Definition – History-– Biological databases (generalized and specialized)
5	2	– Nucleic acid sequence databases (EMBL, NCBI, DDBJ) sequence format (types, FASTA format)
6	2	– Protein sequence databases (SWISS – PROT, PIR) – Structure databases (PDB)
7	3	Sequence homology – Alignment

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	– Global vs. local alignment – Dot-matrix representation
9	3	– BLAST – multiple sequence alignment (CLUSTAL W)
10	4	Phylogenetic analysis (phylogenetic tree, softwares) – Gene finding (methods and tools)
11	4	– Protein prediction – Molecular visualization (tools, RasMol)
12	4	– Automated DNA Sequencing – Human Genome Project
13	5	Concept of Genomics and Proteomics – Comparative genomics
14	5	– Functional genomics – DNA micro arrays
15	5	DNA chips – Protein array

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LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**EMB510S : APPLIED MICROBIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Algal technology, spirulina cultivation, Factors Affecting biomass production, Requirements for growth of spirulina
2	1	Algal tanks, Avoiding contamination, Mass cultivation of spirulina, semi natural lake system, Artificial built cultivation system
3	1	Clean Water system, Harvesting the biomass and product recovery, benefits from spirulina
4	2	Mushroom production, Mushroom biology, Classification and types, Edible and poisonous mushrooms
5	2	Spawn and Spawning, Culture media, preservation and storage of culture, Crop management after spawning
6	2	Casing, Fruiting,Harvesting, processing, Mushroom recipes
7	3	Biofertilizer, Bacteria, Bacterization, Mass cultivation of Rhizobium, Azotobacter

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mass cultivation of Azospirillum and Phosphate solubilizers, Blue green algae, Algalization
9	3	Mass cultivation of Blue green algae. Azolla as Biofertilizer, Mycorrihzae as biofertilizer
10	4	Biogas production, introduction, interaction between various microbial groups
11	4	Factors affecting, Design of digester, Distribution of anaerobic organisms
12	4	Methanogens and Methanogenesis, Alternate feed stock and other wastes, Kinetics of fermentation, use of spent slurry
13	5	Bioremediation, Clean up Biotechnology
14	5	Microbial removal of metal ions, soil bioremediation, Removal of oil spill
15	5	Biodegradation of hydrocarbons, Genetically modified microorganisms

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MEGALA S Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**6**
Subject	**MB612S : BIOTECHNOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition and History, Recombinant DNA Technology
2	1	Enzyme involved- Restriction endonuclease, RNase, Ligases, Cloning vectors, types and Examples
3	1	PBR322, Lambda phage vectors, DNA ligation
4	2	Chemical synthesis of DNA, DNA sequencing
5	2	CDNA, Hybridisation Techniques
6	2	PCR, Genomic library
7	3	Enzyme technology, Enzyme immobilization, Products , Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Biotechnological Potentials of Seaweeds, Microalgae
9	3	Biofuel- Hydrogen gas as a fuel from Microorganisms
10	4	Genetic engineering of plants- Electroporation, Gen gun, Particle bombardment
11	4	Ti plasmid vector, Application,Transgenic plant - Insect resistant
12	4	Stress tolerant, Virus resistant plant, Genetically modified food
13	5	Transgenic Animals- Retro vector method, DNA micro injection method
14	5	Application of rDNA technology, Recombinant product, insulin tPA
15	5	Vaccines gene therapist, patents, IPR

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LESSON PLAN

Name of the Staff	**KRISHNAN R**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**5**
Subject	**MB507S : MEDICAL BACTERIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction, morphology and pathogenesis , Laboratory diagnosis of Staph.aureus, Strept.pyogenes
2	1	Neisseria meningitidis and Neisseria gonorrhae
3	1	Corynebacterium species
4	2	Salmonella sp, Proteus, Vibrio species
5	2	Clostridium tetani and other species, Bacillus anthrax, Pseudomonas sp,
6	2	Vibrio sp, Shigella sp,
7	3	E.coli, Klebsiella, Proteus

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Pneumococcussp,
9	3	Mycobacterium and Listeria monocytogenes
10	4	Yersinia, Haemophilus, Helicobacter
11	4	Francisella, Brucella
12	4	Bordetella, Legionella and Listeria
13	5	Rickettsia, chlamydia
14	5	Mycoplasma, Legionella
15	5	Actinomycetes, Spirochetes

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LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger.
3	1	Asking for help Framing Questions and Answers
4	1	Apologising Making Request
5	2	Audio – Video lessons
6	2	Telephonic communication / Business
7	2	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	3	Building powerful vocabulary Coining related words
10	3	Acronym Mispronounced words
11	4	Extempore
12	4	Elocution
13	5	Description Narration
14	2	II CIA
15	5	Paragraph Writing

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**AMT101Q : Allied Mathematics - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Polynomial Equations with real Coefficients , –
2	1	Irrational roots, Complex roots
3	1	Symmetric functions of roots.
4	4	n-th derivatives
5	4	Leibnitz theorem [without proof] and applications
6	4	Jacobians
7	4	Curvature and radius of curvature in Cartesian co-ordinates

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Curvature and radius of curvature in polar co-ordinates
9	5	Transformation of equation by increasing or decreasing roots by a constant –
10	5	Transformation of equation by increasing or decreasing roots by a constant –
11	5	Transformation of equation by increasing or decreasing roots by a constant –
12	5	Reciprocal equations –
13	5	Reciprocal equations –
14	5	Newton's method to find a root approximately (without proof) .
15	5	Newton's method to find a root approximately (without proof) .

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bakthi Ilakiyam: 1. Thirumoolar 2. Thondaradi Podiyazvar
2	1	Bakthi Ilakiyam: 1. Thirunavukarasar 2. Manikavasager
3	1	Bakthi Ilakiyam: 1. Aandal 2. Patinathar
4	4	Ilakiya Varalaru -Sambanthar , Sundarar Muthal Azvargal
5	5	Mozhi Thiran - kalaisolakkam
6	5	Mozhi Thiran - Kaditham , Mozhi payarpu
7	4	Ilakiya Varalaru - Urainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Droga Suvadugal - V. Iraianbu
9	3	Droga Suvadugal - V. Iraianbu
10	3	Droga Suvadugal - V. Iraianbu
11	4	Ula, Thoothu, Kuravanji, Anthadi
12	4	Ilakiya Varalaru - Islamum Thamizumum
13	2	Mazthan Sagibu, Kumaragurubarar
14	2	Kalingathu parani, Nanthikalambagam
15	2	Mukoodar Pallu

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALALAR PADALGAL
2	2	BARATHIYAR - BARATHADASAM
3	3	KANADASAN - YASUKAVIYAM
4	4	ILAKIYAVARALARU - IRUBATHAM NOORTANDU KAVINGERKAL
5	5	ILAKIYAVARALARU - SIRUKATHAI THORTAM VALERCHY
6	6	SIRUKATHAI - KATHAVU
7	7	SIRUKATHAI - KUDUBATHIL ORU NABER

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	ILAKANAM - VALLINAM MIGUM, MIGA IDEAM
9	9	ABDUL RAHUMAN - ARAVATHU ARIVU
10	2	PUTHUKAVITHAI - M. MATHA - DESAPITHA KAVINGER VAIRAMUTHU- SUYAKOLLI
11	2	THAMIZACHI - THOZHI NATUPURA PADALGAL - MAZAI PADALGAL
12	3	ILAKIYA VARALARU - PUTHUKAVITHAI THORTAM VALERCHI
13	3	ILAKIYA VARALARU - NATUPURA ILAKIYANGAL
14	4	SIRUKATHAI - JAIL , MINNAL
15	4	SIRUKATHAI - ELUTHA MARANTHA KATHAI

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**AMT202T : ALLIED MATHEMATICS - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansion of sine and cosine series, Expansion of sinnx and cosnx Expansion of sine , cosine series in terms of powers x
2	1	Sine and cosine ,tanx series, Hyperbolic functions
3	1	Logarithm of complex number,
4	2	Formation of PDE,complete and singular integrals, four standard types.
5	2	Lagrange 's equation.
6	2	Four Standard types of PDE-complete solutions
7	2	Lagrange 's linear PDE -general solutions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revised unit1&2.Slip test conducted. Class work notes checked
9	5	Finite differences,difference operator, Difference table
10	5	Newton's forward interpolation formula
11	5	Newton's backward interpolation formula
12	5	Lagrange's interpolation formula
13	4	Vector integration -Stokes theorem
14	4	Vector integration -Stokes theorem
15	5	Revision for 4,5 units

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**AMT101Q : Allied Mathematics - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Matrices- characteristics equation and eigen values, eigen vector s, inverse of matrix using Cayley Hamilton theorem
2	3	Matrices- verify Cayley Hamilton theorems
3	3	Matrices-invers of matrix using Cayley Hamilton theorem
4	2	Theory of equation:symmetric functions of roots
5	2	Symmetric functions of roots
6	3	Newton's method of real roots
7	2	Newton's method of finding real roots

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision
9	2	Revision
10	5	Applications of double integrals
11	5	Applications of double integrals
12	5	Applications of triple integrals
13	5	Applications of triple integrals
14	5	Applications of triple integrals
15	5	Revision

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LESSON PLAN

Name of the Staff	**Dr. J. P. Ida Joicey**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Spell bee
2	1	Story telling. Quiz game.
3	2	Seminar.
4	2	Debate.
5	2	Group discussion.
6	3	Book review
7	3	Film review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	Conduct of CIA I
9	4	Speech on current events. Welcome address.
10	4	Vote of thanks
11	4	Report writing.
12	5	Narrating dreams.
13	5	Narrating ambition.
14	0	Conduct of CIA II
15	0	Revision done

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LESSON PLAN

Name of the Staff	**Dr. E. Ruby Violet Rani**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**VE101T : VALUE EDUCATION**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valurs
2	1	Source
3	1	Erosion of value
4	2	Learning
5	2	Theories
6	2	Continued
7	3	Memory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stages of memory
9	3	Modelling
10	4	Emotions
11	4	Theories
12	4	Pleasant emotions
13	5	Intelligence
14	5	Determinants
15	5	Revision

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	MAKING REQUEST HOW TO BE A DOCTOR -STEPHEN LEA COCK TRIPHTHONGS
2	1	PRECIS WRING NON FINITE VERB THE AUXILIARIES
3	2	POEM- AUGURIES OF INNOCENCE-WILLIAM BLAKE NOTE -MAKING
4	2	USE OF WRONG PREPOSITION DIALOGUE WRITING USE OF WRONG ARTICLES
5	3	MY VISION FOR INDIA - A.P.J KALAM DIALOGUE WRITING
6	3	REPORT WRITING PUNCTUATION AND CAPITALS
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	IF POEM THE MERCHANT OF VENICE
9	4	PARAGRAPH WRITING PERSONAL DETAILS
10	5	KIRAN BEDI-PROSE DIALOGUE WRITING
11	5	TENSES PREFIX ANS SUFFIX
12	0	SEMINAR ASSIGNMENT GROUP DISCUSSION
13	0	CLASS TEST
14	0	II CIA EXAM
15	0	REVISION

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PHP101 : MAIN PRACTICAL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I Experiment
2	1	II Experiment
3	1	III Experiment
4	2	IV Experiment
5	2	V Experiment
6	2	VI Experiment
7	3	VII Experiment

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	VIII
9	3	IX
10	4	X
11	4	Revision
12	4	Revision
13	5	Revision
14	5	Revision
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PH101B : PROPERTIES OF MATTER**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Hooke's law – stress – strain diagram -Modulus of elasticity - Relation between elastic constants
2	1	Poisson's ratio- Expressions for Poisson's ration in terms of elastic constants
3	1	work done in stretching of a wire and twisting a wire.
4	2	Twisting couple on a cylinder – Torsional pendulum with and without masses–
5	2	Rigidity modulus and moment of inertia
6	2	Rigidity modulus by static torsion - q, n and s by Searle's method.
7	4	Molecular Interpretation - dimensions of surface tension –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Excess of pressure over curved surfaces – Application to spherical and cylindrical drops and bubbles –
9	4	Variation of surface tension with temperature – Jaeger's method
10	5	Co-efficient of viscosity and its dimensions –
11	5	Rate of flow of liquid in a capillary tube – Poiseuille's formula – Experiment to determine co-efficient of viscosity of a liquid – variation of viscosity of a liquid with temperature and pressure – Viscosity of a gas
12	5	Rankine's method Applications of viscosity.
13	3	Cantilever – Expression for bending moment – Expression for depression –
14	3	Cantilever (static & dynamic methods)– Expression for time period and Experiment to determine Young's Modulus – Non-Uniform bending
15	3	– Uniform bending – expressions - Experiment to determine Young's modulus using pin & microscope and optic lever – Experiment to determine Young's modulus by Koenig's method (Non-Uniform bending).

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LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**19PH203 : THERMAL PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	HEAT: Basics of Heat transfer: Conduction,Convection, Radiation- Mechanical equivalent of Heat.
2	1	THERMODYNAMICS: Reversible and irreversible processes – Heat engines – Otto and diesel engines – thermodynamic scale of temperature
3	1	- entropy - change of entropy in reversible and irreversible processes – T-S diagram– entropy for a perfect gas - third law of thermodynamics
4	2	Expression for pressure - Transport phenomenon – expression for mean free path - thermal conductivity and diffusion of gases -
5	2	distribution of molecular velocities – energy distribution function - Degrees of freedom - equipartition law of energy - CP , CV and ? of a gas -
6	2	theory of Brownian motion – Langevin's theory.
7	3	Molar heat capacities – Mayer's relation reversible adiabatic and isothermal changes– equations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Clement and Desormers method of determining Cp / Cv – Andrew's work on Co2– regenerative cooling –
9	3	the Linde process – Liquid air, oxygen, hydrogen.
10	4	Helium – He I and He II – super fluidity - practical applications of low temperatures – refrigerating machines–
11	4	electroflux refrigerator – Frigidaire – air conditioning machines
12	4	effects of CF2 and Cl2 on Ozone layer.
13	5	First Latent heat equation (Clausius – Clapeyron equation)
14	5	effect of pressure on melting and boiling point – second Latent heat equation
15	5	Maxwell's Thermodynamical relations–derivations.

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LESSON PLAN

Name of the Staff	**GNANA SOUNDARI K**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Speech sound: consonants Meeting people greeting them Introducing people to others
2	1	Prose: Forgetting Letter writing Parts of speech
1	1	Speech sound: consonants Meeting people greeting them Introducing people to others
1	1	Speech sound: consonants Meeting people greeting them Introducing people to others
2	1	Prose: forgetting Letter writing The sentence Parts of speech
6	3	Poem- Time and love Dialogue writing Articles
7	3	Pronouns- Personal, Reflexive, Emphatic Demonstrative, Indefinite, Interrogation, Distributive, Reciprocal and Relative

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA EXAM
9	4	Phonetic Transcription Answering the telephone and asking for someone
10	4	Prose- Mother Teresa- John Frazer Reading comprehension
11	4	Verb: Transitive and Intransitive Verb: Active and passive voices
12	5	Voiced and Voiceless: Sound The selfish giant by O Henry
13	5	Verb: Mood and Tenses Agreement of verb with the subject
14	0	II CIA EXAM
15	0	Revisions

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GNANA SOUNDARI K**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs Making Requests and Responding to Requests Thanking someone and Responding to thanks
2	1	Prose: How to be a Doctor Precis writing Non finite verbs Strong and weak verbs
3	2	The Auxiliaries Strong and weak forms in transcription Inviting, accepting and Refusing Invitation
4	2	Apologising and Responding to apology Poem: Auguries of Innocence
5	2	Note Making Use of wrong prepositions Unnecessary use of Articles
6	3	Relationship between spelling and sound Paying compliments showing appreciation offering Encouragement and Responding to them Asking for Giving and Refusing permission
7	3	Proes: My Vision for India Report writing Punctuation and Capitals

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA EXAMS
9	4	Sentence transcription Describing daily Routine Poem : IF
10	4	One act play- The Merchant of venice- Trail for a pound of flesh Paragraph writing
11	4	Personal details Transcribing Short passages
12	5	Asking for Directions and Giving Directions Biography: Kiran Bedi
13	5	Use of wrong Tenses Use of prefixes and suffixes
14	0	II CIA EXAMS
15	0	Revisions

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PH102A : MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Rigid body- Moment of inertia- Radius of gyration- moment of inertia of a solid cylinder
2	2	cylindrical shell, solid sphere, spherical shell, hollow sphere with external and internal radii
3	2	Bifilar pendulum- determination of g and k.
4	2	Compound pendulum- determination of g and k.
5	2	Moment of inertia, determination of g and k-problems
6	5	MECHANICS OF A SYSTEM OF PARTICLES-Generalized Co-ordinates- transformation equations
7	5	configuration space- principle of Virtual work- D' Alembert's principle

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Lagrange’s equations - derivation
9	5	Atwood's machine
10	5	Compound pendulum
11	3	SPACE SCIENCE-Rockets and satellites- Basic principles of rocket motion
12	3	Basic principles of rocket motion
13	3	Rocket equation
14	3	Thrust and acceleration
15	3	Escape velocity of multistage rockets

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**19PH204 : WAVES AND OSCILLATIONS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SIMPLE HARMONIC MOTION : Simple harmonic motion – Velocity and acceleration in SHM
2	1	Energy of a simple harmonic oscillator-Examples of simple harmonic oscillators in electrical systems
3	1	Superposition of two simple harmonic vibrations in one dimension–Damped harmonic oscillation – Forced oscillator
4	2	TRANSVERSE WAVES : Introduction to transverse waves – Velocities in wave motion – The transverse wave equation
5	2	Solution of the transverse wave equation – Standing waves on a string of fixed length – Energy of a vibrating string
6	2	Standing wave ratio – Wave groups and group velocity – Doppler effect
7	3	LONGITUDINAL WAVES : Introduction to longitudinal waves – Sound waves in gases – Energy distribution in sound waves – Intensity of sound waves – Longitudinal waves in a solid - Example of earthquake

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Reflection and transmission of sound waves at boundaries – Noise and music – Limits of human audibility – The decibel unit
9	3	Diffraction of sound waves – Introduction to acoustic transducers – Acoustics of auditoriums and halls – Reverberation time
10	4	WAVES IN MORE THAN ONE DIMENSION : Plane wave representation in two and three dimensions – Wave equation in two dimensions
11	4	Solution by method of separation of variables – Introduction to normal modes in two dimensional case
12	4	Reflection and transmission of a three-dimensional wave at a plane boundary
13	5	CONTINUOUS MEDIA (FLUIDS) : Fluids as continuous media – Flow properties of liquids – Flow of ideal liquids – Bernoulli's theorem
14	5	Flow of real liquids – Viscosity – Newtonian and non-Newtonian fluids – Reynolds number
15	5	Streamline and turbulent flows – Stroke’s law – Surface energy and surface tension

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PH102A : MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Projectile motion- Range of a projectile, maximum height reached
2	4	Angle of projection for maximum height- Resultant velocity at a given instant(Definitions only)
3	4	Projectile on an inclined plane- Laws of friction
4	4	Sliding friction - Angle of friction- Cone of friction
5	4	acceleration down an inclined plane- Rolling friction and stability.
6	3	Rockets and satellites
7	3	Basic principles of rocket motion

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Rocket equation,
9	3	Thrust and acceleration
10	3	Escape velocity of multistage rockets.
11	1	Center of gravity- Center of gravity of a solid
12	1	hollow cone- Solid and hollow hemisphere
13	1	Thrust-Center of pressure-Vertical rectangular lamina.
14	1	Equation of continuity of flow- Energy of the fluid-
15	1	Euler's Equation of unidirectional flow -Bernoulli's theorem.

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	TAMIL ILAKIYA VARALARU - IRATAI KAPIYANGAL TAMIL ILAKIYA VARALARU - FIVE PERUM PAKIYANGAL
2	4	TAMIL ILAKIYA VARALARU - IRATAI KAPIYANGAL TAMIL ILAKIYA VARALARU - FIVE PERUM PAKIYANGAL
3	4	TAMIL ILAKIYA VARALARU - IRATAI KAPIYANGAL TAMIL ILAKIYA VARALARU - FIVE PERUM PAKIYANGAL
4	4	TAMIL ILAKIYA VARALARU - FIVE SIRU KAPIYANGAL
5	5	MOZHI THIRAN - PANBALAI VANOLI NIGAZCHI THOGUPU
6	5	MOZHI THIRAN - VADIKAIYALAR SAVAI MYA ALUVALER
7	5	MOZHI THIRAN - SURTULA VAZHIKATTI , KADITHANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHI THIRAN - KADITHANGAL
9	5	MOZHI THIRAN - POTHUKATURAI
10	3	PERIYAPURANAM- KAZARSINGA NAYANAR PURANAM
11	3	RATCHANYA YATHIRIGAM - SILUVAI PADUGAL
12	3	SEERAPURANAM - PULI VASANITHA PADALAM
13	4	CHIRUSTHAVA KAPIYANGAL
14	4	ISLAM KAPIYANGAL
15	4	SOLARKALA KAP[IYANGAL

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sanga Ilakiyam : 1. Purananooru 2. Agananooru
2	1	Sanga Ilakiyam : 1. Agananooru
3	4	Ilakiyavaralaru : Etuthogai Noolgal
4	4	Ilakiyavaralaru : Etuthogai Noolgal
5	4	Ilakiyavaralaru : Etuthogai Noolgal
6	4	Neethi Noolgal
7	4	Neethi Noolgal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran - Saithi Varaithal
9	5	Suriki Varaithal, Naarkanal (Patti)
10	5	Ilakiya Varalaru - Pathupattu
11	5	Ilakiya Varalaru - Pathupattu
12	2	Nadunal Vadai
13	2	Sirupanartu Padai Kadai 7 Vallalgal
14	2	Madurai Kanji
15	2	Mullaipattu

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I : Environmental studies and Natural resources Definition, scope and importance of environmental studies – forest resources: deforestation,
2	1	mining, dams – water resources: over – utilization, floods, drought – mineral resources: exdploitation, extraction and usage –
3	1	food resources: food problems, overgrazing, pesticide problems, water logging, salinity – energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conservi...
4	2	Unit II: Ecosystems : Concept, structure and function of an ecosystem – producers, consumers and decomposers –
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types,
6	2	characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Unit III: Biodiversity: Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity – endangered and endemic species of India –
9	3	In-situ and Ex-situ conservation of biodiversity.
10	4	Unit IV: Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution,
11	4	noise pollution, thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Unit V: Social Issues, Human population and the Environment: Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution –
14	5	climate change, global warming, acid rain, ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act –
15	5	Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**19ABP401 : ALLIED BIOPHYSICS PRACTICAL**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Qualitative Analysis of Glucose
2	2	Qualitative Analysis of Fructose
3	3	Qualitative Analysis of Lactose
4	4	Qualitative Analysis of Sucrose .
5	5	Qualitative Analysis of Strach
6	6	Qualitative Analysis Amino Acids- Tyrosine
7	7	Qualitative Analysis Amino Acids- Tryptophan

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Qualitative Analysis of Arginine
9	10	Qualitative Analysis of Histidine
10	10	Estimation of Glycine
11	11	Estimation of Ascorbic acid
12	12	Estimation of Glucose
13	13	Estimation of Protein by Colorimetric method
14	14	Isolation of DNA
15	15	Isolation of RNA

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LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**20ACH301 : ALLIED CHEMISTRY**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Bragg's equation – Principles of X-ray diffraction – Comparison of X-ray, electron and neutron diffraction.
2	3	Crystal lattices – laws of crystallography –
3	3	elements of symmetry – crystal systems –
4	3	unit cell, space lattices – Bravis lattice –
5	3	Miller Indices
6	3	ionic crystal structures of simple inorganic compounds.
7	4	Acid, base titrations,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	complexation,
9	4	precipitation and redox titrations,
10	4	voltammetry,
11	4	conductometry, basic principle and uses.
12	3	amperometry
13	3	REVISION
14	4	REVISION
15	4	REVISION

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	?????????????
2	2	????????
3	4	Peunkappiyangal
4	4	Rettai kappiyangal
5	5	Panpalai vanoli nigalchi thoguppalar thahuthigal
6	5	Vadikkaiyalar sevaimaya aluvalar thaguthigal
7	5	Letters, composition

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kambaramayanam, nool kurippu,
9	3	Kambaramayanam, text
10	3	Periyapuranam
11	4	Christhava kappiyangal
12	4	Islamiya kappiyangal
13	4	Cholar kala kappiyangal
14	5	Kadithangal
15	5	Pothu katturaikal

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananooru Ahananooru Kurunthohai
2	1	Katrina Inkurunooru Kaliththogai
3	1	Paripadal
4	3	Arivudaimai Natparaythal
5	3	Pulavinunukkam
6	4	Ettuththohai
7	4	Neethinoolgal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Seithi varaithal Surukkivaraithal
9	5	Nerkanal
10	2	Nedunalvadai
11	2	Nedunalvadai
12	2	Sirubanatruppadai
13	2	Maduraikanji
14	2	Mullaipattu
15	4	Pathuppattu

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LESSON PLAN

Name of the Staff	**BHUVANESWARI G**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**AOBM401 : BUSINESS ORGANISATION AND MANAGEMENT**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business - Meaning - Characteristics - objectives - Criteria for success in modern business.
2	1	Classification of business activities - profession - Definition - Characteristics of Profession - Difference between profession and business
3	1	Social responsibility of Business - Towards various stakeholders - Towards buyers, Competitors, Employees , suppliers, shareholders, Government, Community.
4	2	Commerce - Meaning, scope and importance of commerce , Economic basis of commerce.
5	2	Trade -Meaning, scope and importance of trade, Internal &foreign trade, Aids to trade, Difference between trade and commerce.
6	2	Types of trade, Inter relationship among industry , commerce and trade. Industry -Meaning, Scope and importance, types of industry.
7	3	Sole trader - Features , advantages, Limitations, Suitability of trading , Partnership - Features, advantages & limitations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kinds of partners - Registration of partnership deed and firm - Joint stock company.
9	3	Private and public limited company - Government companies - Public utilities.
10	4	Management - meaning & definition, Nature and characterisitics of management
11	4	Functions of management - Fourteen Principles of management - Management as a science, art or profession
12	4	Contributions of F.W. Taylor - Principles , Features and benefits, Criticisms - Henry fayol - Fourteen Principles - limitations.
13	5	Motivation -Meaning -Definition - Nature, Features, Characteristics, Importance.
14	5	Benefits of motivation - Types of motivation - Financial and non - financial motivation Elements of sound motivation.
15	5	Theories of Maslow, Herzberg and Mc. Gregor - Features, Merits and De- merits and principles.

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananuru 183,193,Agananuru 2,104
2	1	Kurunthogai- 3,40,Nattirinai 149,110,Inguru nooru vetgai pathu1-5
3	1	Kalithogai palaikali 9,11, paripadal thirumal monravathu padal
4	4	Ettuthogai noolgal
5	4	Kezhkanakkil nethi noolgal
6	3	Thirukkural Arivudamai, Natparaithal
7	3	Thirukkural Pulavi nunukkam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran pathigaigalil seithi varaithal, surukki varaithal
9	5	Mozhi thiran Nerkanal
10	4	Pathupattu noolkal
11	2	Nedunalvadai, 1-30
12	2	Nedunal vadai lines 31-62
13	2	Siripanatru padai
14	2	Madurai kanchi
15	2	Mullai pattu

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LESSON PLAN

Name of the Staff	**JUDE LEONARD HILARY H**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**PH404Q : ELECTRICITY & MAGNETISM**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ELECTROSTATICS
2	1	ELECTROSTATICS
3	2	CHEMICAL EFFECTS OF ELECTRIC CURRENT
4	2	CHEMICAL EFFECTS OF ELECTRIC CURRENT
5	2	CHEMICAL EFFECTS OF ELECTRIC CURRENT
6	2	CHEMICAL EFFECTS OF ELECTRIC CURRENT
7	5	MAGNETIC PROPERTIES OF MATERIALS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MAGNETIC PROPERTIES OF MATERIALS
9	5	MAGNETIC PROPERTIES OF MATERIALS
10	4	AC & EM INDUCTION
11	4	AC & EM INDUCTION
12	4	AC & EM INDUCTION
13	4	AC & EM INDUCTION
14	4	AC & EM INDUCTION
15	4	AC & EM INDUCTION

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**19ABC401 : BIOPHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Fundamental units of nucleic acids – purine pyrimidine, nucleosides and nucleotides.
2	2	DNA-double helical structure, Watson Crick model and base pairing. Nucleic acid-denaturation and annealing of DNA,
3	2	DNA- carrier of genetic information by an experimental proof-RNA- types mRNA
4	2	RNA types - rRNA, tRNA - central dogma (DNA –RNA-Protein)
5	3	Nerve cell-structure, bioelectrical and biochemical conduction of nerve impulses,
6	3	Membrane potential, Resting potential, action potential-
7	3	bioelectrical phenomenon of ECG and EEG-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Molecular basis of muscle contraction
9	5	Principle and instrumentation UV-VIS Spectrophotometry,
10	5	Applications of UV-VIS Spectrophotometry,
11	5	Principle and instrumentation Spectrofluorimetry,
12	5	Applications of Spectrofluorimetry,
13	5	Principle and instrumentation flame photometry
14	5	X Ray diffraction
15	5	FTIR

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Welcoming and gathering NARRATION VOTE OF THANKS INTRODUCING A GUEST TO AUDIENCE
2	1	Refund -ONE ACT PLAY PUBLICITY LITERATURE
3	2	QUIT INDIA- MAHATMA GANDHI TRYST WITHDESTINY -JAWAHARAL NEHRU SOCIAL ISSUES
4	2	SPOTTING ERRORS THE BEAR -ONE ACT PLAY
5	3	I HAVE A DREAM - MARTIN LUTHER KING GETTYSBURG ADDRESS- ABRAHAM LINCOLN NEWS REPORT WRITING
6	3	THE HOUR OF TRUTH- ONE ACT PLAY E-MAIL-WRITING
7	3	I- CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Prose Inaugural Address by John F Kennedy Prepared to Die
9	5	Presentation skills Autobiography Sorrows of Childhood by Charles Chaplin
10	5	Resume Writing
11	5	Some useful expressions Speech writing
12	5	Biography Marie Curie by Colin Mitchell
13	5	Biography Sarojini Naidu by Padmini Sengupta Minutes Writing
14	5	II-CIA
15	5	Revision and Seminar

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LESSON PLAN

Name of the Staff	**VENGADESAN K**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**20ACH301 : ALLIED CHEMISTRY**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Spectroscopy – Types, electromagnetic radiation, characteristics of electromagnetic radiation,
2	2	electromagnetic spectrum, absorption & emission spectra.IR:
3	2	Types of vibration, selection rule - UV: Electronic energy levels - electronic transition & selection rule
4	2	Beer-Lambert law, chromophores, auxochrome - Bathochromic shift, Hypsochromic shift.
5	2	. Colligative properties Lowering of Vapour pressure, Raoult's law, Osmosis,
6	2	derivation of osmotic pressure, reverse osmosis, elevation of boiling point, determination of molar mass
7	2	freezing point depression, and cryoscopic constant, Vant - Hoff factor.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Atom - classification of nuclides nuclear stability, magic number
9	1	Radioactive elements, Decay kinetics,
10	1	Photonuclear reaction, nuclear fission and fusion, Nuclear Reactor – Detectors - Application of Radioactivity.
11	5	Material Science: Superconductivity
12	5	characters of Superconductors- types of Superconductors
13	5	application of Superconductors
14	5	Types of electrodes and cells – Nernst equation
15	5	EMF measurements and its application - principles of chemical and electrochemical corrosion - corrosion control.

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**PH303T : BASICS OF NEWTONIAN AND CLASSICAL MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Rigid body- Moment of inertia- Radius of gyration- moment of inertia of a solid cylinder
2	2	cylindrical shell, solid sphere, spherical shell, hollow sphere with external and internal radii
3	2	Bifilar pendulum-determination of g and k
4	2	Compound pendulum-determination of g and k
5	2	Moment of inertia, determination of g and k-problems
6	5	MECHANICS OF A SYSTEM OF PARTICLES- conservation theorem for linear momentum and angular momentum, conservation of energy
7	5	Generalized Co-ordinates- transformation equations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	configuration space- principle of Virtual work
9	5	D' Alembert's principle
10	5	Lagrange's equations-derivation
11	5	Compound pendulum
12	5	Atwood's machine
13	4	Space Science: Liquid, solid and cryogenic - Propellant rockets
14	4	Space shutter- Orbital velocity
15	4	Launching of satellites - Types of satellite Orbits

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**19ABC401 : BIOPHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to carbohydrates, classification of carbohydrates and structure.
2	1	Monosaccharides structure and occurence
3	1	Classification of Protein
4	1	Structure of proteins
5	1	Bonds stabilizing protein structure, denaturation, renaturation etc.
7	1	Zwitter ions, isoeletric point
6	1	Structure of amino acids

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Radioisotopes, half life, isotope
9	4	Isotope dilution techniques
10	4	Scintillation counter
11	4	Application of radioisotopes in biology
12	4	Radio immuno assay
13	4	Revision
14	4	Revision
15	4	Revision

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LESSON PLAN

Name of the Staff	**ANGEL W**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock - interview Facing an interview Tele - interview
2	2	Macbeth - He kills sleep - William Shakespeare Description Words often confused
3	1	Julius Caesar - Funeral Oration - William Shakespeare Seminar skills Idioms and phrases
4	3	Homonyms and similar words Tele- Conferences Henry IV - William Shakespeare
5	3	Handling customers or clients Receiving visitors The use of Graphics The count of Monte Cristo - Alexandre Dumas
6	1	The count of Monte Cristo - Alexandre Dumas
7	2	The count of Monte Cristo - Alexandre Dumas

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	5	As you like it - patterns of Love - William Shakespeare Homophones Negotiations
10	4	Booking Hotel Accomodation Making small talk and telling stories Group discussion
11	5	Making Appointments Cancelling and rescheduling appointment Hamlet- william Shakespeare
12	5	The count of Monte Cristo - Alexandre Dumas
13	5	The count of Monte Cristo - Alexandre Dumas
14	1	Revision
15	2	II CIA

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**PH303T : BASICS OF NEWTONIAN AND CLASSICAL MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Dynamics: Rigid body- Moment of inertia- Radius of gyration
2	2	moment of inertia of a solid cylinder,
3	2	cylindrical shell, solid sphere,
4	2	spherical shell,
5	2	hollow sphere with external and internal radii
6	2	Bifilar pendulum
7	2	Compound pendulum-Determination of g and k.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Classical Mechanics: Mechanics of a system of particles-
9	5	Generalized Co-ordinates-
10	5	transformation equations-
11	5	configuration space-
12	5	principle of Virtual work- D' Alembert's principle
13	5	- Lagrange's equations and its applications
14	5	Compound pendulum -
15	5	Atwood's machine.

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**PHP303 : MAIN PRACTICAL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
2	2	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
3	3	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
4	4	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
5	5	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
6	6	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
7	7	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
9	9	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
10	10	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
11	11	REPETITION LAB
12	12	REPETITION LAB
13	13	FORMULA TEST
14	14	Model lab I
15	15	Model lab II

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LESSON PLAN

Name of the Staff	**SATHISH M**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PH612S : LASER AND FIBRE OPTIC COMMUNICATION**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Principle of Laser – Einstein Coefficients –
2	1	condition for light amplification – Population Inversion – Threshold Condition – Line shape function – Optical Resonators –
3	1	– Three level and four level systems.
4	3	APPLICATIONS OF LASER Application of laser in industry – cutting and welding – Drilling – surface Hardening –
5	3	Medical applications - laser as diagnostic and therapeutic tool –
6	3	Holography – Theory of recording and reconstruction – application of Holography
7	2	TYPES OF LASERS AND OUTPUT MODULATION METHODS Solid State lasers – Gas lasers – He-Ne

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	and CO2 lasers – semiconductor lasers – Heterojunction lasers -
9	2	Argon ion and Eximer Laser– Q switching and mode locking.
10	4	Optic fiber: Fiber optic revolution – basic characteristics of optical fiber – acceptance angle – .
11	4	numerical aperture – propagation of light through optical fiber – theory of mode formation
12	4	classification of fibers – step index and graded index fibers – single mode and multi mode fibers – losses in fibers – fabrication techniques of fibers
13	5	: FIBER OPTIC COMMUNICATION Source and detectors for fiber optic communication – Laser and LED –
14	5	Analog and digital modulation methods – principle of optical detection – pin and APD photo detectors
15	5	– Noise – Design consideration of a fiber optic communication system

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LESSON PLAN

Name of the Staff	**ELAYA KUMAR K**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH506S : ATOMIC PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Atomic structure,vector atom model,Pauli's exclusion principle,periodic table,various quantum numbers
2	1	Angular momentum and magnetic moment,coupling schemes,LS and JJ coupling
3	1	Spatial magnetisation,Bohr magnetron,stern and Gerlach experiment,fine structure of sodium lines,alkali spectra,spectrum of helium..
4	2	Motion of a charge in transverse electric and magnetic field,specific charge of electron
5	2	Dunningstone method,magnetron method, positive rays
6	2	Thomson parabola method,Aston's and dempstersethod
7	4	photoelectricity ,laws of emission.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Einstein experimental verification of photoelectric equation.
9	4	photoelectric cells
10	5	X-rays, continous and characteristic spectra
11	5	Absorption of X-rays by matter
12	5	compton effect-derivation,change in wavelength
13	3	Debyes explanation,normal zeeman effect
14	3	landes g factor
15	3	paschen back effect,stark effect

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LESSON PLAN

Name of the Staff	**JUDE LEONARD HILARY H**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH507 : SOLID STATE PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	CRYSTAL STRUCTURES
2	1	CRYSTAL STRUCTURES
3	3	MAGNETISM
4	3	MAGNETISM
5	3	MAGNETISM
6	3	MAGNETISM
7	4	DIELECTRICS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	DIELECTRICS
9	4	DIELECTRICS
10	4	DIELECTRICS
11	5	SUPERCONDUCTIVITY
12	5	SUPERCONDUCTIVITY
13	5	SUPERCONDUCTIVITY
14	5	SUPERCONDUCTIVITY
15	5	SUPERCONDUCTIVITY

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LESSON PLAN

Name of the Staff	**JUDE LEONARD HILARY H**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PH611 : NUCLEAR AND RADIATION PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	NUCLEAR STRUCTURE
2	1	NUCLEAR STRUCTURE
3	2	RADIO ACTIVE DECAY
4	2	RADIO ACTIVE DECAY
5	2	RADIO ACTIVE DECAY
6	2	RADIO ACTIVE DECAY
7	2	RADIO ACTIVE DECAY

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	ELEMENTARY PARTICLES
9	5	ELEMENTARY PARTICLES
10	5	ELEMENTARY PARTICLES
11	5	ELEMENTARY PARTICLES
12	4	REACTORS & RADIATION PHYSICS
13	4	REACTORS & RADIATION PHYSICS
14	4	REACTORS & RADIATION PHYSICS
15	4	REACTORS & RADIATION PHYSICS

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LESSON PLAN

Name of the Staff	**MARIA JULIE M**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH508 : BASIC ELECTRONICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Half wave
2	2	Full wave and bridge rectifier
3	2	Expression for efficiency and ripple factor
4	2	Choke input filter
5	2	Capacitor input filter
6	2	Section filter
7	2	Zener power supply

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Rc coupled amplifier
9	2	Frequency response curve
10	2	Analysis of mid - frequency region
11	2	Classification of amplifier
12	2	Class A power amplifier
13	2	Push pull
14	2	Class B power amplifier
15	3	Emitter follower

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LESSON PLAN

Name of the Staff	**Dr.S SANGEETHA MARGREAT**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH508 : BASIC ELECTRONICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic electronic,_Bonding,band theory of solids, types of semiconductor,elemental and compound semiconductor, intrinsic and extrinsic semiconductor
2	1	Effect ef temperature in energy bands,PN junction diode,zener diode,LED,,solar cells,
3	1	Photo diode, different types of operation, transistor biasing, characteristics in CB and CE modes,h-parameters, alphaband beta of a transistor
4	2	Half-wave , full-wave and bridge rectifier – expression for efficiency and ripple factor – choke input filter – capacitor input filte
5	2	– p section filter – zener regulated power supply . RC coupled amplifier – frequency response curve – analysis of mid-frequency region
6	2	classification of amplifiers – class A power amplifier – Push-pull, class B power amplifier – Emitter follower.
7	3	Voltage gain of a feedback amplifier – Barkhausen criterion – Hartley, Colpitt's, phase shift

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Weinbridge oscillators – expression for frequency of oscillations and condition for sustained oscillations in each case
9	3	crystal oscillator – frequency stability.
10	4	Clipping and clamping circuit – biased clipper – integrating and differentiating circuits
11	4	RC time constants. Multivibrators – Astable – Mono stable
12	4	bi-stable multivibrators – Schmitt trigger
13	5	Passive devices – resistors – Capacitors
14	5	– Colour coding – TV antennas – dipole – folded –
15	5	Yagi – Dish – DTH – Mobile communication system.

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LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PHP505 : GENERAL PRACTICAL - 5**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I - Experiment
2	1	II - Experiment
3	1	III - Experiment
4	2	IV - Experiment
5	2	V - Experiment
6	2	VI - Experiment
7	3	Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Revision
9	3	Revision
10	4	Revision
11	4	Revision
12	4	Revision
13	5	Revision
14	5	Revision
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**EPH509T : DIGITAL ELECTRONICS & MICROPROCESSOR**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	AND, OR circuits using diodes and transistors – NOT using transistors
2	1	NAND, NOR and EXOR – functions and truth tables. NAND & NOR as universal gates
3	1	Number systems-decimal, binary, octal and hexadecimal systems-conversion from one number system to another
4	1	codes-BCD code- excess 3 code-Gray code-ASCII code, 1s complement, 2s complement
5	1	Binary addition, subtraction, multiplication and division-unsigned binary numbers- sign magnitude numbers
6	5	Basics of semiconductor memory- RAM, ROM, PROM and EPROM. Microcomputer organization
7	5	8085 Microprocessor-pin functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	architecture of 8085 Microprocessor
9	5	machine and assembly language-programmer's model of 8085
10	5	8085 addressing modes
11	5	Classification of instruction and format – 8-bit data transfer and arithmetic instructions.
12	4	D/A AND A/D CONVERTERS: Introduction – variable resistor network
13	4	binary ladder – D/A converter
14	4	D/A accuracy and resolution. A/D converter – simultaneous conversion
15	4	A/D accuracy and resolution.

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**EPH613 : APPLIED ELECTRONICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	SPECIAL DEVICES AND APPLICATIONS : FET _ Characteristics – parameter FET as amplifier – FET as VVR
2	1	MOSFET – Depletion and enhancement – UJT characteristics
3	1	UJT as relaxation oscillator – SCR characteristics
4	3	APPLICATIONS OF OPERATIONAL AMPLIFIER : OP AMP logarithmic amplifer – antilogarthmic amplifer – Logarithmic multiplier
5	3	Logarithmic divider. Comparator – Schmitt trigger – Astable multivibrator – Monostable multivibrator
6	3	Bistable multivibrator – Wein Bridge oscillator – phase shift oscillator
7	5	D / A AND A / D CONVERTER : Weighted resistor D/A converter

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	4bit R-2R ladder DAC – Analog to Digital converter
9	5	Stair case ADC– Successive approximation ADC
10	2	LINEAR OPERATIONAL AMPLIFIER CIRCUITS : OPAMP – Parameters – inverting and Non-inverting amplifier – gain – Miller effect – Virtual ground
11	2	offset voltage – offset current – PSRR - CMRR. OPAMP – Sign and scale changer – adder, subtractor and averager
12	2	integrator and differentiator – voltage follower – solving simultaneous linear equation
13	4	555 TIMER AND PLL : 555 Timer block diagram - Monostable operation – Astable operation
14	4	Schmitt trigger. Phase – Locked Loops (PLL): Basic principles – phase Detector
15	4	Analog phase detector – Digital phase detector – voltage controlled oscillator (VCO)

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PHP606 : ELECTRONICS PRACTICAL - VI**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Half adder and Full adder –Using NAND gates
2	2	Half adder and Full adder –Using NAND gates
3	3	Half subtractor and Full subtractor- Using NAND gates
4	4	Half subtractor and Full subtractor- Using NAND gates
5	5	Verification of De Morgan's theorems.
6	6	Verification of De Morgan's theorems.
8	8	Microprocessor programming – 8-bit Addition and Subtraction.

Cycle	Unit	Topics to be covered / Activity to be carried out
9	9	NAND, NOR universal gates
10	10	NAND, NOR universal gates
11	11	Basic logic gates using transistor –AND, OR & NOT gates.
12	12	Basic logic gates using transistor –AND, OR & NOT gates.
13	13	MODEL I
14	14	MODEL 2
15	15	MODEL 3
7	7	Microprocessor programming – 8-bit Addition and Subtraction.

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Barathiyer
2	1	Barathidhasen
3	11	Kavimani aseyajothi
4	3	Erupatham nutrendu kavinker
5	3	Serukathen thotamum varchiyum
6	4	Kathavo
7	4	Kudumpathel oru naper

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Vallutu megum edam mega edam
9	2	Athul raguman kavithai
10	2	M matha vairamuthu
11	2	Natupora padelgal
12	3	Potukavithen thotamum varchiyum
13	3	Natupora elakiyum
14	4	Jayel mennal
15	4	Ezutha marentha kathai

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LESSON PLAN

Name of the Staff	**AROKIAMARY A**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**AMT202T : ALLIED MATHEMATICS - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansions of sin ^n X,cos^n x
2	1	, sinnx,cosnx,tannx, Expansions of sinx cos x tanx,in terms of x.
3	1	Hyperbolic and inverse hyperbolic functions
4	1	Logarithmic of complex numbers
5	3	Vector functions, Derivative of a vector function,Scalar and vector point functions
11	4	Gauss divergence theorem
12	4	Gauss divergence theorem

Cycle	Unit	Topics to be covered / Activity to be carried out
13	4	Stoke's theorem
14	4	Stoke's theorem (without proof)
6	3	Scalar and vector point functions
7	3	Gradient of a scalar point function, gradient, Directional derivatives
8	3	Unit vector normal to the surface, angle between the surfaces
9	3	Divergence
10	3	Curl
15	4	Green's theorem (without proof)

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LESSON PLAN

Name of the Staff	**AROKIAMARY A**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**AMT101Q : Allied Mathematics - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Polynomial equestions with real coefficients, irrational roots
2	1	Complex roots , solving equations with related roots
3	1	Symmetric functions of roots, transformation of equations by increasing or decreasing roots by a constant
4	2	Reciprocal equations.
5	2	Reciprocal equations.
6	2	Newton's method to find a root approximately.
7	4	n-th derivatives

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	n-th derivatives
9	4	Leibnitz theorem [without proof] and applications
10	4	Leibnitz theorem [without proof] and applications
11	4	Jacobians
12	4	Jacobians
13	4	Curvature and radius of curvature in Cartesian co-ordinates and polar co-ordinates.
14	4	Curvature and radius of curvature in Cartesian co-ordinates and polar co-ordinates.
15	4	Curvature and radius of curvature in Cartesian co-ordinates and polar co-ordinates.

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**AMT202T : ALLIED MATHEMATICS - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Expansion of sine and cosine series, Expansion of sinnx and cosnx Expansion of sine , cosine series in terms of powers x
2	1	Sine and cosine ,tanx series, Hyperbolic functions
3	1	Logarithm of complex number,
4	2	Formation of PDE,complete and singular integrals, four standard types.
5	2	Lagrange 's equation.
6	2	Four Standard types of PDE-complete solutions
7	2	Lagrange 's linear PDE -general solutions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revised unit1&2.Slip test conducted. Class work notes checked
9	5	Finite differences,difference operator, Difference table
10	5	Newton's forward interpolation formula
11	5	Newton's backward interpolation formula
12	5	Lagrange's interpolation formula
13	4	Vector integration -Stokes theorem
14	4	Vector integration -Stokes theorem
15	5	Revision for 4,5 units

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PHP202 : MAIN PRACTICAL - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Young's Modulus by Uniform Bending – Pin and Microscope Young's Modulus by Uniform Bending – Optic Lever. Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear D...
2	2	Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear Densities Air wedge thickness of a wire M and BH – TanC – Deflection and vibration Magnetometer. Figure of mer...
3	3	Young's Modulus by Uniform Bending – Pin and Microscope Young's Modulus by Uniform Bending – Optic Lever. Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear D...
4	4	Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear Densities Air wedge thickness of a wire M and BH – TanC – Deflection and vibration Magnetometer. Figure of mer...
5	5	1 Young's Modulus by Uniform Bending – Pin and Microscope Young's Modulus by Uniform Bending – Optic Lever. Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Line...
6	6	Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear Densities Air wedge thickness of a wire M and BH – TanC – Deflection and vibration Magnetometer. Figure of mer...
7	7	1 Young's Modulus by Uniform Bending – Pin and Microscope Young's Modulus by Uniform Bending – Optic Lever. Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Line...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear Densities Air wedge thickness of a wire M and BH – TanC – Deflection and vibration Magnetometer. Figure of mer...
9	9	1 Young's Modulus by Uniform Bending – Pin and Microscope Young's Modulus by Uniform Bending – Optic Lever. Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Line...
10	10	Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear Densities Air wedge thickness of a wire M and BH – TanC – Deflection and vibration Magnetometer. Figure of mer...
11	11	1 Young's Modulus by Uniform Bending – Pin and Microscope Young's Modulus by Uniform Bending – Optic Lever. Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Line...
12	12	Spectrometer i–d Curve. Focal Length of a concave lens. Potentiometer – Calibration of an Ammeter. Sonometer – Comparison of Linear Densities Air wedge thickness of a wire M and BH – TanC – Deflection and vibration Magnetometer. Figure of mer...
13	13	Formula test
14	14	Model Practical I
15	15	Model Practicals II

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introducing oneself
2	2	Tenses
3	3	Tenses Usage
4	4	Role play
5	5	Small Utterances
6	2	Framing questions
7	3	Listening skill

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reading skill
9	3	Speaking skill
10	4	Writing skill
11	5	Grammar
12	3	Listening skill test
13	4	Speaking skill test
14	5	Writing skill test
15	5	Grammar test

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Teaching Spelling
2	1	Story Telling
3	1	Quiz Game
4	2	Seminar
5	2	Debate
6	2	Group Discussion
7	3	Book review

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	C I A
9	3	Literary Review
10	3	Film Review
11	4	Speech on Current Events
12	5	Situational Addressing
13	1	Test
14	2	C I A
15	5	Test

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PAKTHIILLKIYAM 1.1. THIRUMOOLAR - THIRUMANTHIRAM 1.2. THONDARADI PODIYAZHVAAR - THIRUMALAI
2	1	1.3. THIRUNAVUKKARASAR - THEVARAM 1.4. MANIKKKAVASAR - THIRUVASAGAM
3	1	1.5. AANDAAL - THIRUPPAVAI 1.6. PATTINATHTHAAR - PULAMPAL
4	4	ILLAKIYAVARALAARU 4.1. SAMPANTHAR, SUNTHARAR 4.2. AAZHVAARGAL 9 MUTHAL AAZHVAAR MOOVAR MATTUM)
5	5	MOZHITHIRAN 5.`1. THAM IZHIL PIRA THURAIGAL 5...1. ARIVIAYL 5.1.2. AATCHITHURAI 5.1.3. KANINI 5.1.4. PUZHANGUPORUTGAL
6	5	5.2. MOZHIPEYARPPU PAGUTHI 5.2.1. KADITHANGAL 5.2.2. INIYA ELIYA TAMIL MOZHI PEYARPPU
7	4	4.5. VURAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THUROGA SUVADUGAL - IRAIYANBU 1. ECHARIKGAI EPPOTHUM 2.NEEUMA PURUTTAS 3. NANTRI MARAPPAVAR PALAR 4. SEEDANAAI ORU MOODAN
9	3	5.VELI MEINTHA VAYALGAL 6. VALARTHA KADA 7. AMUKKAPADUM ANGIGARAM 8. VUTHTHAMANILLAI VUTHTHAMASOZHAN
10	3	9. PILACI UTHTHAM 10. VUDAN PIRAPPUM VULAI VAIGALAM 11. PUTHTHAR KAKATHTHILEYE 12.THUROGAM ENUM THODARKATHAI 13. ERUTHIYAGA
11	4	4.3. SIRILAKIYANGAL (THOOTHU, VULAA, KURAVANCHI, ANTHATHI)
12	4	4.4. ISLAMUM THAMIZHUM
13	2	2.1. MASTHAAN SAGIPU - PARAPARAKKANNI 2.2. KUMARAKURUPARAR - PILLAITHAMIZ
14	2	2.3. KALINGATHU BARANI - PORKALAM 2.4. NANTHIKALAMPAGAM - NANTHIVARMAN
15	2	2.5. MUKGOODARPALLU - PALLARGALIN VALAM

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Vallalar - Thiruvarutpaa 1.2. Barathiyar - Barathadesam
2	1	1.3. Barathidasan - Ulagam unnudaiyathu 1.4. Kavimani - Aaciyajothi
3	1	1.5. Kannadasan - Utharimainthan
4	3	3.1. Irupadam Nootrandu kavinjargal
5	3	3.3. Sirukathain thottramum valarchium
6	4	4.1. kathavu
7	4	4.2. Kudumpaththil Oru Nabar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1. Vallottru migum edangal 5.2. Vallottru miga edangal
9	2	2.1. Abdul raguman - Aalaabanai 2.3. Vairamuththu - Suyakolli
10	2	2.2. Mu.Meththaa - Thesapidavukgu theru padaganin anjali
11	2	2.4. Thamizhchi - Enjottupen 2.5. Nattupurapadalgal
12	3	3.2. Puthukavithaien Thottramum valarchium
13	3	3.4. Nattupura Illakiyangal
14	4	4.3. Jeyil - Sirukathai
15	4	4.4. Minnal 4.5. Ezhuthamarantha kathai

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**AMT101Q : Allied Mathematics - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Matrics Characteristic equation
2	3	Eigen roots and Eigen vectors
3	3	Eigen vectors
4	3	Cayleys hamilton theorem
5	3	Cayleys hamilton theorem
6	3	Inverse Matrix
7	5	Integration

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Double integration
9	5	Polar coordinates
10	5	Polar coordinates
11	5	Trible integration
12	5	Trible integration
13	5	Application of area
14	5	Application of Volume
15	5	Application of Centriod

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LESSON PLAN

Name of the Staff	**Dr.S SANGEETHA MARGREAT**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PH102A : MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Mechanics of rigid bodies-moment of bodies,radius of gyration, moment of inertia of a solid cylinders, cylindrical shell, solids sphere
2	2	Spherical shell, hollow sphere with external and internal radii
3	2	Bifilar pendulum, compound pendulum, determination of g and k
4	3	rockets and satellites, discussion
5	3	basic principes of rocket motion, rocket equation
6	3	escape velocity of multistage rockets
7	1	Mechanics of single particle---centre of gravity,centre of gravity of a solid and hollow come,solid and hollow hemisphere,thrust

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Centre of pressure, vertical rectangular laminar, equation of continuity of flow, energy of the fluid
9	1	Euler's equation of unidirectional flow, Bernoulli's theorem
10	4	Projectile and friction, projectile motion,range of a projectile, maximum height reached and angle of projection for maximum height
11	4	Resultant velocity at a given instant, projectile on an inclined plane, laws of friction, angle of friction, cone of friction
12	4	Acceleration down an inclined plane, rolling friction and stability
13	5	Mechanics of a system of particle, generalized coordinates, transformation equation
14	5	Principles of virtual work, D' Alemberts principles
15	5	Lagrangian equation and it's application

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**LE101T : FUNCTIONAL ENGLISH - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Forgetting-Robert Lynd -prose English speech sounds Dialogue writing - FORMAL AND INFORMAL - Meeting people and Introducing people to others
2	1	LETTER WRITING -INFORMAL THE SENTENCE PARTS OF SPEECH
3	2	SPEECH SOUNDS -PURE VOWELS PERSONAL INFORMATION MENDING WALL POEM-ROBERT FROST
4	2	NOUNS: CLASSES AND GENDER LETTER WRITING - FORMAL NOUNS -NUMBER AND CASE ADJECTIVES COMPARISON OF ADJECTIVES
5	3	DIPHTHONGS TAKING AND LEAVING MESSAGES MAKING ENQUIRERS ON THE PHONE TIME AND LOVE -WILLIAM SHAKESPEARE -POEM
6	3	ARTICLES PRONOUNS-PERSONAL,REFLEXIVE AND EMPHATIC PRONOUNS -DEMONSTRATIVE , IN DEFINITIVE, INTERROGATIVE AND RELATIVE
7	3	CIA -1

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	PHONETIC TRANSCRIPTION
9	5	TELEPHONE CONVERSATION
10	5	PROSE MOTHER TERESA -JOHN FRASER
11	5	One act play Best Laid Plans
12	5	Reading Comprehension
13	5	Verb- Transitive and Intransitive Active voice and Passive voice
14	5	Verb Mood and Tense Short story Selfish Giant
15	5	Concord or Agreement of the verb with the subject Voiced and Voiceless sounds

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LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PH101B : PROPERTIES OF MATTER**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Hooke's law – stress – strain diagram -Modulus of elasticity - Relation between elastic constants
2	1	Poisson's ratio- Expressions for Poisson's ration in terms of elastic constants
3	1	work done in stretching of a wire and twisting a wire.
4	2	Twisting couple on a cylinder – Torsional pendulum with and without masses–
5	2	Rigidity modulus and moment of inertia
6	2	Rigidity modulus by static torsion - q, n and s by Searle's method.
7	4	Molecular Interpretation - dimensions of surface tension –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Excess of pressure over curved surfaces – Application to spherical and cylindrical drops and bubbles –
9	4	Variation of surface tension with temperature – Jaeger's method
10	5	Co-efficient of viscosity and its dimensions –
11	5	Rate of flow of liquid in a capillary tube – Poiseuille's formula – Experiment to determine co-efficient of viscosity of a liquid – variation of viscosity of a liquid with temperature and pressure – Viscosity of a gas
12	5	Rankine's method Applications of viscosity.
13	3	Cantilever – Expression for bending moment – Expression for depression –
14	3	Cantilever (static & dynamic methods)– Expression for time period and Experiment to determine Young's Modulus – Non-Uniform bending
15	3	– Uniform bending – expressions - Experiment to determine Young's modulus using pin & microscope and optic lever – Experiment to determine Young's modulus by Koenig's method (Non-Uniform bending).

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LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**19PH203 : THERMAL PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	HEAT: Basics of Heat transfer: Conduction,Convection, Radiation- Mechanical equivalent of Heat.
2	1	THERMODYNAMICS: Reversible and irreversible processes – Heat engines – Otto and diesel engines – thermodynamic scale of temperature
3	1	- entropy - change of entropy in reversible and irreversible processes – T-S diagram– entropy for a perfect gas - third law of thermodynamics
4	2	Expression for pressure - Transport phenomenon – expression for mean free path - thermal conductivity and diffusion of gases -
5	2	distribution of molecular velocities – energy distribution function - Degrees of freedom - equipartition law of energy - CP , CV and ? of a gas -
6	2	theory of Brownian motion – Langevin's theory.
7	3	Molar heat capacities – Mayer's relation reversible adiabatic and isothermal changes– equations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Clement and Desormers method of determining Cp / Cv – Andrew's work on Co2– regenerative cooling –
9	3	the Linde process – Liquid air, oxygen, hydrogen.
10	4	Helium – He I and He II – super fluidity - practical applications of low temperatures – refrigerating machines–
11	4	electroflux refrigerator – Frigidaire – air conditioning machines
12	4	effects of CF2 and Cl2 on Ozone layer.
13	5	First Latent heat equation (Clausius – Clapeyron equation)
14	5	effect of pressure on melting and boiling point – second Latent heat equation
15	5	Maxwell's Thermodynamical relations–derivations.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PHP101 : MAIN PRACTICAL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Experiment No: 1
2	2	Experiment No: 2
3	3	Experiment No: 3
4	4	Experiment No: 4
5	5	Experiment No: 5
6	6	Experiment No: 6
7	7	Experiment No: 7

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Experiment No: 8
9	9	Experiment No: 9
10	1	Repeat Class-1
11	2	Repeat Class-2
12	3	Repeat Class-3
13	4	Formula test
14	5	Model exam-1
15	5	Model exam-2

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thirumular - Thirumanthiram Thondaradi Podiyalvar - Thirumalai
2	1	Thirunavugarasar-Thevaram Manikkavasagar- Thiruvasagam
3	1	Andal - Thirupavai Pattinathar - Pulampal
4	4	Sampanthar, Suntharar Alvargal Muthal Alvargal Muvar Mattum
5	5	Mozhithiran -Tamilil pera Thuraigal Ariviyal Atchithurai Kanini Pulanguporul
6	5	Mozhipeyarpu kadithangal Tamil Mozhi Peyarpu
7	4	Orainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Urainadai Thuroga suvadugal - Eraianpu
9	3	Urainadai Thuroga suvadugal - Eraianpu
10	3	Urainadai Thuroga suvadugal - Eraianpu
11	4	Elakkiyavaralaru Sitrilakkiyangal - Thudu, oola, Kuravanchi,Anthathi
12	4	Elakkiyavaralaru Esulamum Tamilum
13	2	Sitrilakkiyangal Masthan Sakipu - Paraparakanni Kumarakuruparar - Pillai Tamil
14	2	Sitrilakkiyangal Kaligathu Parani -Porgalam Nanthikalampagam - Nanthivarman
15	2	Sitrilakkiyangal Mukkudar Pallu - PallargalinValam

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LESSON PLAN

Name of the Staff	**BALAMURUGAN K Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**EPD201T : DYNAMICS OF PERSONALITY**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Personality,Meaning & Definition,Determinants of Personality,
2	1	genetic Determinants, social determinants ,Cultural determinants ,Psychological Determinants
3	1	Development of Personality,Need for Personality Development,Guidelines to Improve Personality
4	2	Theories Of Personality, Freudian Theory ,Freudian Structure of Personality ,defense mechanism, identification ,displacement ,repression,projection
5	2	reaction formation , fixation and regression ,jungs analytical theory ,jungs structure of personality ,ego , personal unconscious , archetypes ,the persona
6	2	anima and animus , the shadow ,the self ,the attitudes ,functions ,dynamic of personality,psychic energy ,psychic values .
7	3	Stress Management, stress, concept of stress ,stressful situation ,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	life transition , stress arousing events ,personal crisis, bereavement and grief,
9	3	stress coping skills ,assessing stress , social support
10	4	Mental health , concept , definition , self evaluation, adjust ability, maturity , regular life absence of extremism , characteristics of mental health ,factor of mental health ,biological factors
11	4	genes ,infection , organic condition , malnutrition, psychological factor , socio economic factor ,interpersonal relationship, economic and cultural factor , racism , and discrimination
12	4	war and violence, significant of youth period ,specific mental health problem for rural youth ,autonomy versus dependence , feeling of inferiority , marriage and family ,
13	4	identity of roles, vocational roles , social discrimination
14	5	personality development ,meaning , uses of personality assessment, approaches of personality assessment ,
15	5	protective techniques , Rorschach inkblot test, thematic apperception test (TAT)

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PH101B : PROPERTIES OF MATTER**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Hooke's law – stress – strain diagram –
2	1	Modulus of elasticity -Relation between elastic constants
3	1	Poisson's ratio- Expressions for Poisson's ration in terms of elastic constants –
4	1	work done in stretching of a wire and twisting a wire.
5	1	problem solving in unit 1
6	4	Molecular Interpretation - dimensions of surface tension
7	4	Excess of pressure over curved surfaces

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Application to spherical and cylindrical drops and bubbles
9	4	Variation of surface tension with temperature – Jaeger's method
10	4	Problem solving in unit 2
11	3	Cantilever, expression for bending moment , expression for depression- cantilever(static and dynamic methods
12	3	Expression for time period and experiment to determine Young's Modulus
13	3	Non Uniform bending- uniform bending expression.
14	3	Experiment to determine Young's modulus using pin and microscope and optic lever
15	3	Experiment to determine young's modulus by Koenig's method non uniform bending.

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**19PH204 : WAVES AND OSCILLATIONS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple harmonic motion – Velocity and acceleration in SHM – Energy of a simple harmonic oscillator –
2	1	Examples of simple harmonic oscillators in electrical systems –
3	1	Superposition of two simple harmonic vibrations in one dimension–Damped harmonic oscillation – Forced oscillator.
4	2	Introduction to transverse waves – Velocities in wave motion – The transverse wave equation –
5	2	Solution of the transverse wave equation – Standing waves on a string of fixed length – Energy of a vibrating string –
6	2	Standing wave ratio – Wave groups and group velocity – Doppler effect
7	3	Introduction to longitudinal waves – Sound waves in gases – Energy distribution in sound waves – Intensity of sound waves – Longitudinal waves in a solid

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	-Example of earthquake – Reflection and transmission of sound waves at boundaries – Noise and music – Limits of human audibility –
9	3	The decibel unit – Diffraction of sound waves – Introduction to acoustic transducers – Acoustics of auditoriums and halls – Reverberation time
10	4	Plane wave representation in two and three dimensions – Wave equation in two dimensions –
11	4	Solution by method of separation of variables – Introduction to normal modes in two dimensional case –
12	4	Reflection and transmission of a three-dimensional wave at a plane boundary
13	5	Fluids as continuous media – Flow properties of liquids – Flow of ideal liquids –
14	5	Bernoulli's theorem – Flow of real liquids – Viscosity – Newtonian and non-Newtonian fluids –
15	5	Reynolds number – Streamline and turbulent flows – Stroke’s law – Surface energy and surface tension.

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Silapathigaram - Vazhakgurai kathai
2	1	1.2. Manimegalai - Aaputhiranodu manipallavam adaintha kaathai
3	4	4.1. Impernkappiyam
4	4	4.4. sozharkala kappiyangal 4.5. Incirukappiyam
5	2	2.1. Seevaga sinthamani
6	5	5.1. Banpalai vanoli nigazhci thoguppu 5.2. Vadikkaiyalar Sevai maiya Aluvalar
7	5	5.3. Suttrula vazhikkatti 5.4. Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.5. Pothukatturai
9	2	2.2. kammparamayanam - Angathanthoothu padalam
10	2	2.2. kammparamayanam - Angathanthoothu padalam
11	3	3.1. Periyapuraanam - Kazharsinganayanar puranam
12	3	3.2. Irachaniyayathrigam - Siluvaipaadugal
13	3	3.3. Sirapuranam - Pulivasanithapadalam
14	4	4.2. Kirishthava kappiyangal
15	4	4.3. Islamiya kappiyangal

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	, SILAPATHIGARAM ! VAZHAKURAIKATHAI
2	1	MANIMEGALAI ! Manipallavam adaintha kathai
3	4	IYYAMPERUM KAPPIYANGAL
4	4	IYYINJIRU KAPPIYANGAL, CHOZHARKALA KAPPIYANGAL
5	2	SEEVAGA SINTHAMANII
6	5	PANBALAI VAANOLI NIGAZHCHI THOGUPPU VAADIKKAIYALAR SEVAI
7	5	SUTTRULAVAZHIKAATTI KADITHANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	POTHUKATTURAI
9	2	KAMBARAMAYANAM
10	3	PERIYAPURANAM
11	3	RATCHANAYA YAATHRIGAM
12	3	SEERAPURANAM
13	4	KIRITHUVA KAPPIYANGAL
14	4	KIRITHUVA KAPPIYANGAL
15	4	ISLAMIYA KAPPIYANGAL

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIA JULIE M**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**PH404Q : ELECTRICITY & MAGNETISM**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Coloumb's law – electric intensity and electric potential – electrical images(any four examples)
2	1	electric intensity and potential due to an earthed conducting sphere applying the principle of electrical images- electric dipole – potential and intensity due to a dipole
3	1	capacity – capacitance of a spherical and cylindrical capacitor – energy of a charged capacitor – loss of energy due to sharing of charges
4	2	Carey foster bridge - theory – Determination temperature co-efficient of resistance – Calibration of voltmeter
5	2	Ammeter - Using Potentiometer - thermoelectricity- Peltier's coefficient – Thomson coefficient
6	2	application of thermodynamics to a thermocouple and connected relations- thermoelectric diagram and uses
7	3	Growth and decay of current in a circuit containing resistance and inductance

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Growth and decay of charge in a circuit containing resistance and capacitor
9	3	Growth and decay of charge in a LCR circuit – condition for the discharge to be oscillatory – frequency of oscillation.
10	4	Power in AC circuit – wattless current- choke coil construction and working of transformers
11	4	energy losses – AC motors – single phase, three phases – star and delta connection –electric fuses- circuit breakers.
12	4	Inductances in series and parallel-Self inductance of co-axial cylinders-energy stored in a magnetic field-time varying magnetic field-Single phase induction motor
13	5	Susceptibility- permeability- intensity of magnetization and the relation B= u(H+M), M-H
14	5	B-H curves for a magnetic material using magnetometer method and ballistic galvanometer method
15	5	Terrestrial magnetism – magnetic elements- dip circle.

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LESSON PLAN

Name of the Staff	**Mr. E. Arokiadoss**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Welcoming and gathering NARRATION VOTE OF THANKS INTRODUCING A GUEST TO AUDIENCE
2	1	Refund -ONE ACT PLAY PUBLICITY LITERATURE
3	2	QUIT INDIA- MAHATMA GANDHI TRYST WITHDESTINY -JAWAHARAL NEHRU SOCIAL ISSUES
4	2	SPOTTING ERRORS THE BEAR -ONE ACT PLAY
5	3	I HAVE A DREAM - MARTIN LUTHER KING GETTYSBURG ADDRESS- ABRAHAM LINCOLN NEWS REPORT WRITING
6	3	THE HOUR OF TRUTH- ONE ACT PLAY E-MAIL-WRITING
7	3	I- CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Prose Inaugural Address by John F Kennedy Prepared to Die
9	5	Presentation skills Autobiography Sorrows of Childhood by Charles Chaplin
10	5	Resume Writing
11	5	Some useful expressions Speech writing
12	5	Biography Marie Curie by Colin Mitchell
13	5	Biography Sarojini Naidu by Padmini Sengupta Minutes Writing
14	5	II-CIA
15	5	Revision and Seminar

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers
5	2	energy flow – ecological succession – food chains, food webs and ecological pyramids – types, characteristics, structure and function of forest ecosystem
6	2	grassland ecosystem, desert ecosystem and aquatic ecosystem –
7	3	Definition of biodiversity – genetic, species and ecosystem diversity –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	value of biodiversity – India as a mega diversity nation – hot spots – threats to biodiversity –
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution,
11	4	thermal pollution and nuclear hazards – solid waste management: causes, effects, control measures and disposal of wastes –
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain
14	5	ozone depletion, nuclear accidents and holocaust – wasteland reclamation – Environment protection Act
15	5	Wildlife protection Act – Forest Conservation Act – public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**AGNES MARY I Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cilapathigaram
2	1	Manimegalai
3	2	Sevaga sinthamani
4	4	Erattai kappiyam, impermkappiyam
5	4	Insiru kappiyam
6	5	Mozhithiran
7	5	Sutrulavazhikatti, kadithangal, pothukatturai

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Kamparamayanam
9	3	Periyapuranam
10	3	Thempavani
11	3	Sirapuranam
12	4	Kirusthava kappiyangal
13	4	Kerusthava kappiyangal
14	4	Esulamiya kappiyangal
15	4	Solar kala kappiyangal

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LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**20ACH301 : ALLIED CHEMISTRY**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Bragg's equation and its Derivation
2	3	Principles of X-ray diffraction. Comparison of X-ray, electron and neutron diffraction.
3	3	Crystal lattices – laws of crystallography
4	3	elements of symmetry – crystal systems – unit cell
5	3	space lattices – Bravis lattice – Miller Indices
6	3	ionic crystal structures of simple inorganic compounds.
7	1	Atom - classification of nuclides, nuclear stability

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	magic number, Radioactive elements
9	4	Acid, base titrations - basic principle and uses
10	4	Complexation titrations - basic principle and uses
11	4	Precipitation titrations - basic principle and uses
12	4	Redox titrations - basic principle and uses
13	4	Voltammetry - basic principle and uses
14	4	Amperometry - basic principle and uses
15	4	Conductometry - basic principle and uses

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LESSON PLAN

Name of the Staff	**BARANIDHARAN S**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**AOBM401 : BUSINESS ORGANISATION AND MANAGEMENT**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business, meaning, characteristics Objectives, of business
2	1	Criteria for success in modern business Classification of business and professional
3	1	Profession, meaning, distinction between business and profession Social responsibility of business
4	2	Commerce Meaning scope and important of commerce Trade Meaning scope and important of commerce Industry Meaning scope and important of commerce
5	2	Economics Basis of commerce Government and growth of country
6	3	Sole trader Definitely, meaning, characteristics Advantages and disadvantages
7	3	partnership company Definitely, meaning, characteristics Advantages and disadvantages

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Joint Stock Company Definitely, meaning, characteristics Advantages and disadvantages
9	3	private and public limited company Government companies Public utilities
10	4	Management meaning and definition Nature and characteristics
11	4	functions of management Principle of management
12	4	Case studies of management
13	5	Management thought of FW Taylor henry Fayol
14	5	Motivation Meaning Theories
15	5	Theories of Maslow Concepts and important

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**PH303T : BASICS OF NEWTONIAN AND CLASSICAL MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Dynamics: Rigid body- Moment of inertia- Radius of gyration
2	2	moment of inertia of a solid cylinder,
3	2	cylindrical shell, solid sphere,
4	2	spherical shell,
5	2	hollow sphere with external and internal radii
6	2	Bifilar pendulum
7	2	Compound pendulum-Determination of g and k.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Classical Mechanics: Mechanics of a system of particles-
9	5	Generalized Co-ordinates-
10	5	transformation equations-
11	5	configuration space-
12	5	principle of Virtual work- D' Alembert's principle
13	5	- Lagrange's equations and its applications
14	5	Compound pendulum -
15	5	Atwood's machine.

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**PHP303 : MAIN PRACTICAL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
2	2	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
3	3	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
4	4	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
5	5	1. Compound Pendulum 2. Bifilar Pendulum 3. Sonometer ac frequency using steel wire 4. Young's modulus-cantilever - oscillations dynamic method-pin and microscope. 5. Young's modulus cantilever - scale and telescope
6	6	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
7	7	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
9	9	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
10	10	6. Sonometer ac frequency using brass wire 7. Spectrometer-grating-normal incidence method 8. Spectrometer-grating-minimum deviation method 9.. Potentiometer- Resistance-Specific Resistance of a wire
11	11	REPETITION LAB
12	12	REPETITION LAB
13	13	FORMULA TEST
14	14	Model lab I
15	15	Model lab II

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PHP505 : GENERAL PRACTICAL - 5**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
2	2	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
3	3	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
4	4	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
5	5	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
6	6	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
7	7	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
9	9	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
10	10	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
11	11	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
12	12	1. Youngs modulus – Koenig's method – non uniform bending 2. Newtons rings – R1, R2 and μ of a convex lens 3. Spectrometer i – i' curve 4. Spectrometer – narrow angled prism – μ of the prism. 5. Construction of a low range power pac...
13	13	Formula Test
14	14	Model Practical I
15	15	Model Practical II

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PHP606 : ELECTRONICS PRACTICAL - VI**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
2	2	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
3	3	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
4	4	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
5	5	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
6	6	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
7	7	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
9	9	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
10	10	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
11	11	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
12	12	NAND, NOR universal gates Half adder and Full adder – mixture of gates Half subtractor and Full subtractor- mixture of gates Microprocessor 8-bit Addition and Subtraction. Verification of De Morgan's theorem. Basic logic gates using transistor –AND...
13	13	Formula test
14	14	Model Practicals I
15	15	Model Practicals II

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LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**EPH509T : DIGITAL ELECTRONICS & MICROPROCESSOR**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Number systems – decimal, binary, octal and hexadecimal systems –
2	1	conversion from one number system to another Codes – BCD code – excess 3 code, Gray code – ASCII code – Binary arithmetic – Binary addition – s
3	1	ubtraction – unsigned binary numbers – sign magnitude numbers – I's and 2's complement – Binary multiplication and division.
4	4	D/A Converter
5	4	A/D converter
6	4	Binary Ladder
7	5	Basics of semiconductor memory-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	RAM, ROM, PROM and EPROM. Microcomputer organization-8085 Microprocessor -
9	5	pin functions-architecture-machine and assembly language-programmer's model of 8085-8085 addressing modes.
10	5	Classification of instruction and format
11	5	8-bit data transfer
12	5	Arithmetic instructions.
13	1	Revision to K map
14	1	Revision to Microprocessor 8085
15	5	Revision to Semiconductor memory

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LESSON PLAN

Name of the Staff	**JUDE LEONARD HILARY H**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH507 : SOLID STATE PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	CRYSTAL STRUCTURES
2	1	CRYSTAL STRUCTURES
3	3	MAGNETISM
4	3	MAGNETISM
5	3	MAGNETISM
6	3	MAGNETISM
7	4	DIELECTRICS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	DIELECTRICS
9	4	DIELECTRICS
10	4	DIELECTRICS
11	5	SUPERCONDUCTIVITY
12	5	SUPERCONDUCTIVITY
13	5	SUPERCONDUCTIVITY
14	5	SUPERCONDUCTIVITY
15	5	SUPERCONDUCTIVITY

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LESSON PLAN

Name of the Staff	**MARIA JULIE M**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PH612S : LASER AND FIBRE OPTIC COMMUNICATION**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Principle of Laser – Einstein Coefficients – condition for light amplification
2	1	Population Inversion – Threshold Condition – Line shape function
3	1	Optical Resonators – Three level and four level systems.
4	2	Solid State lasers – Gas lasers – He-Ne and CO2 lasers
5	2	semiconductor lasers – Heterojunction lasers
6	2	Argon ion and Eximer Laser– Q switching and mode locking
7	3	Application of laser in industry – cutting and welding – Drilling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	surface Hardening – Medical applications - laser as diagnostic and therapeutic tool
9	3	Holography – Theory of recording and reconstruction – application of Holography.
10	4	Fiber optic revolution – basic characteristics of optical fiber – acceptance angle
11	4	numerical aperture – propagation of light through optical fiber – theory of mode formation – classification of fibers
12	4	step index and graded index fibers – single mode and multi mode fibers – losses in fibers – fabrication techniques of fibers.
13	5	Source and detectors for fiber optic communication – Laser and LED
14	5	Analog and digital modulation methods – principle of optical detection
15	5	pin and APD photo detectors – Noise – Design consideration of a fiber optic communication system.

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LESSON PLAN

Name of the Staff	**Dr.S SANGEETHA MARGREAT**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH508 : BASIC ELECTRONICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic electronic,_Bonding,band theory of solids, types of semiconductor,elemental and compound semiconductor, intrinsic and extrinsic semiconductor
2	1	Effect ef temperature in energy bands,PN junction diode,zener diode,LED,,solar cells,
3	1	Photo diode, different types of operation, transistor biasing, characteristics in CB and CE modes,h-parameters, alphaband beta of a transistor
4	2	Half-wave , full-wave and bridge rectifier – expression for efficiency and ripple factor – choke input filter – capacitor input filte
5	2	– p section filter – zener regulated power supply . RC coupled amplifier – frequency response curve – analysis of mid-frequency region
6	2	classification of amplifiers – class A power amplifier – Push-pull, class B power amplifier – Emitter follower.
7	3	Voltage gain of a feedback amplifier – Barkhausen criterion – Hartley, Colpitt's, phase shift

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Weinbridge oscillators – expression for frequency of oscillations and condition for sustained oscillations in each case
9	3	crystal oscillator – frequency stability.
10	4	Clipping and clamping circuit – biased clipper – integrating and differentiating circuits
11	4	RC time constants. Multivibrators – Astable – Mono stable
12	4	bi-stable multivibrators – Schmitt trigger
13	5	Passive devices – resistors – Capacitors
14	5	– Colour coding – TV antennas – dipole – folded –
15	5	Yagi – Dish – DTH – Mobile communication system.

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LESSON PLAN

Name of the Staff	**Dr.S SANGEETHA MARGREAT**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**EPH614S : NUMERICAL METHODS & BASIC COMPUTER PROGRAMMING**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Eigen values, Eigen vectors, Cayley Hamilton
2	1	characteristic equation of a matrix –Solution of simultaneous equations
3	1	– Gauss elimination method – Gauss-Jordan method.
4	2	Linear and Lagrange interpolation
5	2	Newton's forward & backward interpolation polynomial equation & determination of roots
6	2	Newton-Raphson method.
7	3	Trapezoidal rule – Simpson rule 1/3 & 3/8

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Solution of first & second order differential equation: Taylor series
9	3	– Euler's method (Improved & Modified) – Solutions of forth order Runge-Kutta method.
10	4	History & Features of C Language - Variable name
11	4	data type and sizes – declaration – arithmetic, relational and logical operators
12	4	perecedence and order of evaluation.
13	5	Unconditional control statements – GOTO and labels – Conditional control statements – simple IF, IF..ELSE, nested IF..ELSE, ELSE IF ladder
14	5	switch case – break – continue statement. Looping statement – while –
15	5	do..while – for – nested for loop – (Basic Programs - Qualitative studies only)

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LESSON PLAN

Name of the Staff	**Dr.S SANGEETHA MARGREAT**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PH610S : RELATIVITY, QUANTUM MECHANICS AND MATHEMATICAL METHODS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Frames of references – Michelson – Morley experiment – significance of negative result – postulates of special theory of relativity
2	1	Lorentz transformation equations – Length contraction – Time dilation – Relativity of simultaneity – Law of addition of velocities – variation of mass with velocity
3	1	relativistic kinetic energy equations – postulates of general theory of relativity – gravitational red shift.
4	2	Matter Waves – de Brogile wavelength – wave velocity and group velocity
5	2	Heisenberg's Uncertainty principle – proof of Uncertainty principle for one dimensional wave packet – postulates of wave mechanics
6	2	properties of wave function – operator formalism (Basics only)– eigen functions – eigen values – expectation values.
7	3	Schr?dinger equation – time dependent and time independent – application of Schr?dinger equations – linear harmonic oscillator

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	rigid rotator – hydrogen atom.
10	4	Gauss divergence theorem – stokes theorem – Greens theorem
11	4	applications of vectors to hydrodynamics. Spherical polar coordinates
12	4	expressions for gradient, div in Cartesian & spherical coordinates.
13	5	Beta and gamma functions– relation between them
14	5	harmonics-Bessel's differential equations – Legendre's differential equations
15	5	Hermite's differential equations – Laguerre's differential equations – series solutions.
8	3	One dimensional box, barrier penetration, tunneling ffect

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LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PH506S : ATOMIC PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Photo electricity - Introduction
2	4	Photoelectric emission laws –
3	4	Lenard's experiment-Richardson and Compton experiment-Einstein photoelectric equation
4	5	X-RAYS: Continuous X-ray spectra
5	5	characteristic X-RAY spectra absorption of X-RAYS by matter-
6	5	concept of reciprocal lattice
7	4	Revision to Unit IV

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Revision to Unit IV
9	4	Revision to Unit IV
10	5	Revision to Unit V
11	5	Revision to Unit V
12	5	Revision to Unit V
13	3	Characteristic of X-Ray
14	3	Compton effect - Derivation
15	3	Compton effect - Experimental Verification

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LESSON PLAN

Name of the Staff	**PRAVEEN P Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**5**
Subject	**PHP505 : GENERAL PRACTICAL - 5**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Experiment No: 1
2	1	Experiment No: 1
3	2	Experiment No: 2
4	2	Experiment No: 2
5	3	Experiment No: 3
6	3	Experiment No: 3
7	4	Experiment No: 4

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Experiment No: 4
9	5	Experiment No: 5
10	5	Experiment No: 5
11	6	Experiment No: 6
12	6	Experiment No: 6
13	7	Experiment No: 7
14	7	Experiment No: 7
15	1	Repeat class-1

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LESSON PLAN

Name of the Staff	**YOGAMBAL C Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**PH611 : NUCLEAR AND RADIATION PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nuclear spin – determination of magnetic dipole moment, electric quadruple moment, parity of nuclei, isospin -theories of nuclear composition, proton and electron hypothesis
2	1	proton – neutron hypothesis, nuclear forces – meson theory of nuclear forces - Liquid drop model – Bethe Weizacker's mass formula – application to alpha decay
3	1	Bohr – Wheeler theory – shell model – evidences – theory – energy level diagram – spin orbit interaction – magic numbers – nuclear stability.
4	2	Radioactive disintegration – law of successive disintegration – transport and secular equilibrium – radioactive series
5	2	Geiger – Nuttal law – Age of earth – alpha particle disintegration energy – alpha particle spectra – theory of alpha decay (Qualitative treatment).
6	2	Beta ray spectra – origin – neutrino theory of beta decay – electron capture – gamma rays – determination of wavelength by Diamond – crystal spectrometer – nuclear isomerism.
7	3	Cyclotron – synchrocyclotron – Betatron – electron synchrotron - proton synchrotron (Bevatron)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GM counter – ionization chamber – bubble chamber
9	3	scintillation counter – photographic emulsion techniques.
10	4	Nuclear fission – Chain reaction – four-factor formula – reactor theory – critical size of a reactor – general aspect of reactor design- reactor shielding – reactor control - classification of reactors
11	4	Pressurized heavy water reactor – fast breeder reactor- Introduction to recent rectors. Radiation hazards – biological effects of radiation - radiation sickness – radiation units and operational limits radiation survey meters
12	4	Pocket dosimeter –control of radiation hazards – radiation therapy – radioisotopes used for therapy – nuclear medicine – industrial applications – food preservatives.
13	5	Classification – types of interaction – symmetry and conservation laws – hadrons
14	5	leptons – baryons – mesons – strangeness – hyperons
15	5	antiparticles – antimatter – basic ideas about quarks – types of quarks

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LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**6**
Subject	**EPH613 : APPLIED ELECTRONICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	FET _ Characteristics – parameter FET as amplifier – FET as VVR
2	1	MOSFET – Depletion and enhancement – UJT characteristics –
3	1	UJT as relaxation oscillator – SCR characteristics.
4	3	OP AMP logarithmic amplifer – antilogarthmic amplifer – Logarithmic multiplier –
5	3	Logarithmic divider.Comparator – Schmitt trigger – Astable multivibrator – Monostable multivibrator –
6	3	Bistable multivibrator – Wein Bridge oscillator – phase shift oscillator
7	5	Weighted resistor D/A converter – 4bit R-2R ladder DAC

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	– Analog to Digital converter –
9	5	Stair case ADC– Successive approximation ADC.
10	2	OPAMP – Parameters – inverting and Non-inverting amplifier – gain – Miller effect – Virtual ground –
11	2	offset voltage – offset current – PSRR - CMRR. OPAMP – Sign and scale changer – adder, subtractor and averager –
12	2	integrator and differentiator – voltage follower – solving simultaneous linear equation.
13	4	555 Timer block diagram - Monostable operation – Astable operation –
14	4	Schmitt trigger.Phase – Locked Loops (PLL): Basic principles – phase Detector-
15	4	Analog phase detector – Digital phase detector – voltage controlled oscillator (VCO).

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Bakthi Ilakiyam: 1. Thirumoolar 2. Thondaradi Podiyazvar
2	1	Bakthi Ilakiyam: 1. Thirunavukarasar 2. Manikavasager
3	1	Bakthi Ilakiyam: 1. Aandal 2. Patinathar
4	4	Ilakiya Varalaru -Sambanthar , Sundarar Muthal Azvargal
5	5	Mozhi Thiran - kalaisolakkam
6	5	Mozhi Thiran - Kaditham , Mozhi payarpu
7	4	Ilakiya Varalaru - Urainadai Valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Droga Suvadugal - V. Iraianbu
9	3	Droga Suvadugal - V. Iraianbu
10	3	Droga Suvadugal - V. Iraianbu
11	4	Ula, Thoothu, Kuravanji, Anthadi
12	4	Ilakiya Varalaru - Islamum Thamizumum
13	2	Mazthan Sagibu, Kumaragurubarar
14	2	Kalingathu parani, Nanthikalambagam
15	2	Mukoodar Pallu

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALALAR PADALGAL
2	2	BARATHIYAR - BARATHADASAM
3	3	KANADASAN - YASUKAVIYAM
4	4	ILAKIYAVARALARU - IRUBATHAM NOORTANDU KAVINGERKAL
5	5	ILAKIYAVARALARU - SIRUKATHAI THORTAM VALERCHY
6	6	SIRUKATHAI - KATHAVU
7	7	SIRUKATHAI - KUDUBATHIL ORU NABER

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	ILAKANAM - VALLINAM MIGUM, MIGA IDEAM
9	9	ABDUL RAHUMAN - ARAVATHU ARIVU
10	2	PUTHUKAVITHAI - M. MATHA - DESAPITHA KAVINGER VAIRAMUTHU- SUYAKOLLI
11	2	THAMIZACHI - THOZHI NATUPURA PADALGAL - MAZAI PADALGAL
12	3	ILAKIYA VARALARU - PUTHUKAVITHAI THORTAM VALERCHI
13	3	ILAKIYA VARALARU - NATUPURA ILAKIYANGAL
14	4	SIRUKATHAI - JAIL , MINNAL
15	4	SIRUKATHAI - ELUTHA MARANTHA KATHAI

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**19ZO102 : INVERTEBRATA - II**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I PHYLUM PROTOZOA: Type study- paramecium,,
2	1	parasitic protozoans [Entamoeba
3	1	Trypanosoma and plasmodium]
4	2	UNIT – II COELENTERATA: General characters and classification up to classes with examples., reefs.
5	2	Type study – Obelia
6	2	polymorphism in coelenterates – corals and coral
7	3	UNIT – III ANNELIDA: General characters and classification up to classes with examples.,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Type study: Earthworm
9	3	metamerism in Annelids, parasitic adaptations of Leech.
10	4	UNIT – IV ARTHROPODA: Type study – Prawn, .
11	4	Peripatus and its affinities, Mouth parts of insects
12	4	Crustacean larvae and their importance.
13	5	UNIT – V ECHINODERMATA: General characters and classification up to classes with examples.
14	5	Type Study- Star fish,
15	5	Echinoderm larvae and their significance.

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LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**19ZO204 : CHORDATA - II**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I Salient Features and General classification of Phylum chordata upto orders. General
2	1	Origin of Chordata.- Sub phylum: Prochordata: Type study: Amphioxus (Cephalochordata) -
3	1	Characters and affinities of Hemichordata- Balanoglossus & Urochordata- Ascidian.
4	2	UNIT –II Class PISCES General characters and classification up to orders. Type study: Shark. Accessory respiratory organs in fishes
5	2	-Class AMPHIBIA General characters and classification up to orders. Type study : Frog .
6	2	Adaptive features of Anura, Urodela & Apoda. Parental care in Amphibia – Neoteny.
7	3	UNIT – III Class REPTILIA- General characters and classification upto orders.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Type study – Calotes. Poison apparatus and biting mechanism of poisonous snakes.
9	3	Identification of poisonous and non – poisonous snakes.
10	4	UNIT – IV Class AVES - General characters and classification upto orders.
11	4	Type study –Pigeon Characters of Archaeopteryx, Ratitae,
12	4	Migration in birds, Flight adaptation.
13	5	UNIT – V MAMMALIA - General characters and classification upto orders.
14	5	Type study – Rabbit. Egg laying mammals.
15	5	Dentition in mammals. Aquatic mammals

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LESSON PLAN

Name of the Staff	**JOHNBOSCO A Dr**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Marabu kavithaigal -Thiruvarutpa-Eramalingavallalar Magakavi Barathiyarin- Baratha Desam
2	1	Barathidasanin Ulagam unnudaiyathu Kavimaniyin Aasiya jothi-Buhttharin Arivurai
3	1	1.Kaviyarasu Kannadasanin Eyasukaaviyam Uothsarippillai Uvamai
4	3	Elakkiya Varalaru-20am Nutrandu Kavijarkal Sirukathaiyin Thotramum Valarchium
5	4	Sirukathaigal-Kathavu,Ki.Erajanaarayananin Kathavu,Kudumbaththil Oru nabar
6	5	Mozhiththiran -Vallotru migum migaa Edangal
7	2	Abdhul Raguman-Aalabanai Mu Methaa-Thesappithavukku theruppadaganin Anjali Thamizhachi-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	????????????? - 2 ?? ?????????? –???????????????? ????????????? ??????
9	2	????????????? –????????? ??????????? –??????????????
10	4	??????? –??????
11	4	???????-???????
12	2	????????????? ???????? –???????? ????????
13	3	?????????????- ?????????????? ????????? ??????????
14	3	?????????????-??????????? ???????????
15	4	???????-????????????

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**GRACY JANOVA A**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALLALAAR,BHARATHI-BHARATHI THESAM
2	1	BHARATHI THASAN-ULAGAM UNNUDAIYATHU,KAVI MANI-AASIYA JOTHI
3	1	KANNATHAASAN-YESU KAAVIYAM
4	3	IRUPATHAM NOOTRAANDU KAVIZNJARGAL
5	3	SIRU KATHAIYIN THOTRAM VALARCHI
6	4	KATHAVU
7	4	KUDUMBATHIL ORU NABAR

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	VALLOTRU MIGUM MIGA IDANGAL
9	2	ABDHUL RAHUMAAN - AALAABANAI, VAIRAMUTHTHU - SUYA KOLLI
10	2	MU. METHTHAA - THESAPITHAVUKU THERU PAADAGANIN ANJALI
11	2	THAMIZHACHCHI - ENJOTTUP PENN, NATTUPURA PAADALGAL
12	3	PUTHU KAVITHAIYIN THOTRAMUM VALARCHIYUM
13	3	NAATTUPPURA ILAKKIYANGAL
14	4	JAYIL - SIRUKATHAI
15	4	MINNAL, EZHUTHA MARANTHA KATHAI

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THIRUMANDIRAM----- THIRUMOOLAR THIRUMAALAI--------- THONDARADIPODIYAZHVAR
2	1	THEVAARAM----- THIRUNAAVUKKARASAR THIRUVASAGAM --- MANIKKAVASGAR
3	1	THIRUPAAVAI------ AANDAAL IRANGARPA-------- PATTINATHAR
4	4	SAMBANDAR SUNDARAR, MUDALAAZHVAARGAL MOOVAR
5	5	TAMIL KALAI SORKAL ARIVIYAL, AATCHITHURAI, KANINNI, PUZHAGUPORUL
6	5	MOZHIPEYARPU PAGUTHI,, KADITHANGAL
7	4	TAMIL URAINADAI VALARCHI

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	THROGA SUVADUGAL: IRAI ANBU 1--4 CHAPTERS
9	3	THROGA SUVADUGAL 5--9 CHAPTERS
10	3	THROGA SUVADUGAL 10----13 CHAPTERS
11	2	NANDHI SWARA KANNI: MASTHAN SAHIB MEENATCHI AMMAI PILLAI TAMIL: KUMARAKURUBARAR
12	2	KALINGATHU BARANI, NANDHI KALAMBAGAM
13	2	MUKOODAL PALLU,,, ISLAMUM TAMIZHIUM
14	4	SITRILLAKIYANGAL: THOOTHU, , KURAVANCHI, ANTHAATHI
15	4	ISALMUM THAMIZHUM

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LESSON PLAN

Name of the Staff	**RITA MARY J**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THIRUVARUTPA --VALLALAR BHARATHADESAM--BHARATHIYAR
2	1	ULLAGAM UNNUDAYATHU-BHARATHIDASAN AASIYAJYOTHI- KAVIMANI
3	1	YESUKAAVIYAM- KANNADASAN
4	3	20th CENTURARY POETS (KAVIGZARGAL)
5	3	SIRUKATHAI- THOTRAMAMUM VALARCHIYUM
6	4	KATHAVU-K RAJANARAYANAN
7	4	KUDUMBATHIL ORU NABAR- K RAJANARAYANAN

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	VALLOTTRU MIGUM,MIGA IDANGAL
9	2	AALABANAI-ABDUL RAHAMAN
10	2	DESAPITHAVUKKU ANJALI- M MEHATHA PUTHIYAERPADU- VAIRAMUTHU
11	2	ENJOTTUPENN-THAMIZHACHI NATTUPURA PADALGAL- VANAMA MALAI
12	3	PUTHUKAVITHAI THOTRAMUM VALARCHIYUM
13	3	NATTUPURA ILLAKIYANGAL
14	4	JAIL,MINNAL- K RAJANARAYANAN
15	4	YEZHUTHA MARANTHAKATHAI

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**ZO101B : INVERTEBRATA - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles of Taxonomy
2	1	Binomial nomenclature-rules of nomenclature
3	1	classification of the animal kingdom.
4	2	PORIFERA: General characters and classification upto classes with examples.
5	2	Type study - sycon, spicules
6	2	canal system in sponges
7	3	HELMINTHES: General characters

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	classification upto classes with example
9	3	classification upto classes with example
10	4	ARTHROPODA: General characters
11	4	classification upto classes with examples
12	4	classification upto classes with examples
13	5	MOLLUSCA: General characters
14	5	classification upto classes with examples. .
15	5	Type study – Fresh water Mussel, Economic importance of mollusca, torsion in mollusca

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**18ZOP21 : PRACTICAL - I :INVERTEBRATA AND CHORDATA**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DISSECTIONS Earthworm – Digestive system
2	1	Cockroach – Digestive, Nervous system and Reproductive system, Prawn – Nervous system, Fish – Digestive system
3	1	MINOR PARCTICAL MOUNTING -Insect Mouth parts : Cockroach, Honey bee, House Fly and Mosquito Prawn – Appendages, Shark - Placoid scales, Earthworm – Body setae
4	2	1.Classify by giving reasons Paramecium,Sycon, Obelia, Taenia solium, Neries, Prawn, Freshwater mussel, Seastar, Amphioxus, Shark, Hyla, Rhacophorus, Calotes, Pigeon, Rat/Rabbit.
5	2	2.Adaptations to their respective modes of life Entamoeba, Trypanosoma, Plasmodium, Corals [any 2], Ascaris, Fasiola, Wuchereria bancrofti,
6	2	Cheatopterus, Leech, Limulus, Nauplius, Mysis, Zoea, Balanoglossus, Ascidian, Ichthyophis, Draco, sea snake and Bat.
7	3	3.Biological significance: Paramecium conjugation and binary fission, physalia, Trochophore Larva, Peripatus, Sacculina On Crab, Sea Anemone on Hermit Crab, Pearl Oyster,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Bipinnaria Larva, Anabas, Hippocampus, Narcine, Echeneis, Arius, Exocoetus, Eel,
9	3	Amblystoma, Axolotl Larva, Bufo, Cobra,
10	4	Krait, Russels Viper, Echis Carinata, Turtle, Parrot, Woodpecker, King Fisher and Ant eater
11	4	3.Biological significance: Paramecium conjugation and binary fission,
12	4	physalia, Trochophore Larva, Peripatus, Sacculina On Crab, Sea Anemone on Hermit Crab, Pearl Oyster, Bipinnaria Larva, Anabas
13	5	, Hippocampus, Narcine, Echeneis, Arius, Exocoetus, Eel, Amblystoma, Axolotl Larva, Bufo, Cobra, Krait, Russels Viper, Echis Carinata, Turtle, Parrot,
14	5	Woodpecker, King Fisher and Ant eater Eel, Amblystoma, Axolotl Larva, Bufo, Cobra, Krait, Russels Viper, Echis Carinata, Turtle, Parrot, Woodpecker, King Fisher and Ant eater
15	5	5.Draw labeled sketches: T.S. of Nereis, T.S. of Leech, Obelia medusa, T.S. of Amphioxus through Pharynx, T.S. through arm of Sea star.

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**18ZOP11 : PRACTICAL - I :INVERTEBRATA AND CHORDATA**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DISSECTIONS Earthworm – Digestive system
2	1	Cockroach – Digestive, Nervous system and Reproductive system,
3	1	Prawn – Nervous system, Fish – Digestive system
4	2	MINOR PARCTICAL MOUNTING -Insect Mouth parts : Cockroach, Honey bee,
5	2	House Fly and Mosquito Prawn –
6	2	Appendages, Shark - Placoid scales, Earthworm – Body setae
7	3	1.Classify by giving reasons Paramecium,Sycon, Obelia, Taenia solium, Neries, Prawn, Freshwater mussel, Seastar, Amphioxus, Shark, Hyla, Rhacophorus, Calotes, Pigeon, Rat/Rabbit

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	2.Adaptations to their respective modes of life Entamoeba, Trypanosoma, Plasmodium, Corals [any 2], Ascaris, Fasiola, Wuchereria bancrofti, Cheatopterus, Leech, Limulus, Nauplius, Mysis, Zoea, Balanoglossus, Ascidian, Ichthyophis, Draco, sea snake and B..
9	4	3.Biological significance: Paramecium conjugation and binary fission, physalia, Trochophore Larva, Peripatus, Sacculina On Crab, Sea Anemone on Hermit Crab, Pearl Oyster,
10	4	Bipinnaria Larva, Anabas, Hippocampus, Narcine, Echeneis, Arius, Exocoetus, Eel, Amblystoma, Axolotl Larva, Bufo, Cobra, Krait, Russels Viper, Echis Carinata, Turtle, Parrot, Woodpecker, King Fisher and Ant eater
11	4	4. Relate structure and function: Sponge Spicules, Obelia-Polyp, Taenia-Scolex, Nereis - Parapodium, Book lungs of scorpion/Honey bee sting apparatus, Pedicellaria of Sea star, Ctenoid Scale and Quill Feather of pigeon.
12	5	5.Draw labeled sketches: T.S. of Nereis, T.S. of Leech, Obelia medusa,
13	5	T.S. of Amphioxus through Pharynx, T.S. through arm of Sea star.
14	5	6.Osteology Skeleton - Pectoral girdles of Frog and Pigeon.,
15	5	Pelvic Girdles of Frog and Pigeon.

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LESSON PLAN

Name of the Staff	**ARUL PRAKASH A Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**19ZO203 : CHORDATA - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Salient Features and General classification of Phylum chordata upto orders. Origin of Chordata.
2	1	Salient Features and General classification of Phylum chordata upto orders. Origin of Chordata.
3	1	Salient Features and General classification of Phylum chordata upto orders. Origin of Chordata.
4	2	Class PISCES General characters and classification upto orders.
5	2	Type study: Shark. Accessory respiratory organs in fishes, Migration in fishes
6	2	Migration in fishes
7	3	Class REPTILIA- General characters and classification upto orders.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Type study – Calotes. Poison apparatus
9	3	biting mechanism of poisonous snakes
10	4	Class AVES - General characters
11	4	Aves- classification upto orders.
12	4	Features of Archaeopteryx
13	5	MAMMALIA - General characters
14	5	Mammals- classification upto orders.
15	5	Egg laying mammals

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Making Request How to be a doctor - Stephen Leacock
2	1	Precis writing Non finite verb The auxiliaries
3	2	Dialogue writing Poem- Auguries of Innocence - William Blake
4	2	Uses of preposition and articles Note making
5	3	Dialogue writing My vision for India- Abdul Kalam
6	3	Report. Writing Punctuation and capital
7	0	I CIA Exam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Paragraph writing Describing Daily Routine If -Rudyard Kipling -poem
9	4	The merchant of Venice - Shakespeare Paragraph writing Personal details
10	5	Dialogue writing Kiran Bedi - parmesh Dangwal
11	5	Use of wrong Tenes Uses of prefix and suffix
12	0	Essays - class Test Assignment
13	0	Seminar Group discussion
14	0	II CIA Exam
15	0	Revision

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LESSON PLAN

Name of the Staff	**Mr. A. Napolean Joseph**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Inviting someone 2. Expressing Gratitude
2	1	3. Complimenting and Congratulating
3	1	4. Starting a conversation with a stranger.
4	1	5. Asking for help 6. Framing Questions and Answers
5	1	7. Apologising 8. Making Request
6	2	1. Audio – Video lessons 2. Telephonic communication / Business
7	2	3. Conversational skill 4. Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	I CIA
9	3	1. Building powerful vocabulary 2. Coining related words
10	3	3. Acronym 4. Mispronounced words
11	4	1. Extempore
12	4	2. Elocution
13	5	1. Description 2. Narration
14	2	II CIA
15	5	3. Paragraph Writing

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LESSON PLAN

Name of the Staff	**BHAKIARAJ D Dr**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**19ACH202 : ALLIED CHEMISTRY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction to PURIFICATION TECHNIQUES, Purification of solid compounds – Crystallisation
2	2	Fractional crystallization- Sublimation
3	2	Purification of liquids- Experimental techniques of distillation- Fractional distillation
4	2	Vacuum distillation- Steam distillation
5	3	Chromatography - Principles- Types - Principle and applications of Thin Layer Chromatography
6	3	Thin Layer Chromatography - Rf Value - Column chromatography
7	3	Ion Exchange Chromatography

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Soxhlet Extraction - Principle and applications.
9	5	Water quality parameters – COD, BOD, TDS
10	5	Hardness of water - Temporary and Permanent hardness
11	5	Estimation of hardness (EDTA method)
12	5	Water softening (Zeolite Method)
13	5	Demineralization of water (Ion Exchange Method)
14	5	Desalination (Reverse Osmosis Method).
15	5	Revision

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**19ACH202 : ALLIED CHEMISTRY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Chemical bonding –Types of Bonding.
2	1	Structure of Amino acids - Zwitterion - Isoelectric Point
3	1	Structure of Proteins
4	1	Co-Ordination Chemistry: Definition of terms used - classification of ligands-
5	1	Werner's theory
6	1	Biochemistryof Iron-Heme proteins - Structure and function of hemoglobin, myoglobin.
7	1	IonicEquilibria - pH scale - Buffer solution

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Types of Buffer Solution-Calculation of pH values of Buffer mixtures - Henderson equation
9	4	General features of spectroscopy-units - Rotational spectroscopy.
10	4	Vibrational spectroscopy – the vibrations of molecules – transitions - UV-Visible Spectroscopy.
11	4	The rotational energy levels of molecules-rotational transitions
12	4	Absorption Laws - Selection Rules -
13	4	Types of Electronic transitions – chromophore-Auxochrome-Absorption bands and Intensity.
14	4	Woodward-fiesher rules for calculating ?max in Dienes.
15	4	Woodward-fiesher rules for calculating ?max in a, ß-unsaturated carbonyl compounds.

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**19ACP202 : ALLIED CHEMISTRY PRACTICAL - I**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction for the Systematic Qualitative analysis of given Organic compounds.
2	1	Demonstration of the Systematic Qualitative analysis of given Organic compound.
3	1	Systematic Qualitative analysis of Organic compound - 1
4	1	Systematic Qualitative analysis of Organic compound - 2
5	1	Systematic Qualitative analysis of Organic compound - 3
6	1	Systematic Qualitative analysis of Organic compound - 4
7	1	Systematic Qualitative analysis of Organic compound - 5

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Systematic Qualitative analysis of Organic compound - 6
9	1	Systematic Qualitative analysis of Organic compound - 7
10	1	Systematic Qualitative analysis of Organic compound - 8
11	1	Systematic Qualitative analysis of Organic compound - 9
12	1	Systematic Qualitative analysis of Organic compound -10
13	1	Systematic Qualitative analysis of Organic compound - 11
14	1	Model practical examination -1
15	1	Model practical examination- 2

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**1**
Subject	**19ABZ101 : Allied Botony**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	General outline of Bentham and hooker's system of classification
2	1	Bacteria-general characters-shape-flagellation
3	1	structure of E.coli –reproduction, economic importance
4	1	Structure of TMV and Bacteriophage
5	1	Study of the characters and the economic important of the following families Curcurbitaceae, Apocynaceae, Euphorbiaceae and Liliaceae
6	3	Photosynthesis –light reaction- calvin cycle
7	3	respiration- glycolysis and kerb's cycle-electron transport system

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	growth hormones-Auxins
9	3	Tissue culture – principles
10	5	Mendelism-monohybrid cross
11	5	Mendelism dihybrid crosses
12	5	theories of evolution-Lamarckism
13	5	theories of evolution- Darwinism
14	5	ecosystem- fresh water ecosystem
15	5	environmental pollution-types and control measures

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LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**2**
Subject	**19AEC202 : English Communication - II**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I GROUP ACTIVITY 1. Spell bee 3. Quiz game
2	1	UNIT – I GROUP ACTIVITY 2. Story telling
3	2	Unit-II TALK TOGETHER 1.Seminar 2. Debate
4	2	Unit-II TALK TOGETHER 3. Group Discussion
5	3	Reviewing Skills 1. Book Review
6	3	2. Film Review
7	3	I C.I.A

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Public Speaking Speech on current Events Welcome Addresses
9	4	Public Speaking Vote of thanks report writing
10	5	Unit V 1. Narrating Dreams
11	5	Unit V 2. Narrating Ambition Syllabus Completed
12	5	Students Talk
13	5	II CIA
14	5	Students Presentation
15	5	Revision

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LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**English**	Semester	**1**
Subject	**18PEN12 : INDIAN LITERATURE IN ENGLISH**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Toru Dutt : Lakshman
2	1	Toru Dutt : Lakshman
3	1	Nissim Ezekiel : The Professor
4	2	Sarojini Naidu : The Coromandal Fishers Kamala Das : My Grandmother's House
5	3	Arun Kolatkar : An Old Woman
6	3	Aravind Mehrotra : Songs of the Ganga
7	3	Aravind Mehrotra : Songs of the Ganga

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	4	Mahesh Dattani : Dance Like a Man
10	4	Githa Hariharan : The Thousand Faces of Night
11	5	Nirad C. Chaudhuri : A Passage to England
12	5	Nirad C. Chaudhuri : A Passage to England
13	2	II CIA Revision
14	2	II CIA
15	5	Overall Revision

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LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**English**	Semester	**2**
Subject	**18EPEN25 : ENGLISH LANGUAGE TEACHING (ELT)**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	A Brief History of English Language Teaching
2	1	The Nature of Approaches and Methods in Language Teaching The role of English in India.
3	2	Theories of language learning -- Behaviouristic theory; Cognitive theory;
4	2	First language acquisition and Second language learning.
5	3	Approaches and Methods: The Oral Approach and Situational Language Teaching Grammar Translation
6	3	Audio-lingual Communicative Language Teaching. Competency Based Language Teaching.
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Curriculum Designing;
9	4	Testing and Evaluation.
10	4	Testing and Evaluation.
11	5	Study Skills:- Teaching of LSRW skills
12	5	Teaching Comprehension; Making Speeches; Debating. Error Analysis
13	5	Strategies and Techniques for Effective Self- Study
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**JACKULINE SUGANTHI T**	Academic Year	**2023-2024**
Department	**English**	Semester	**1**
Subject	**18PEN13 : ENGLISH PROSE AND FICTION**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Charles Lamb: From Essays of Elia a) New Year's Eve b)Dream Children:A Reverie
2	1	Addison and Steele: From Coverley Papers a)The Spectator's Account of Himself b)Sir Roger at Church
3	1	Francis Bacon a)Of Travel b)Of Parents and Children
4	3	William Hazlitt: My First Acquaintance with Poets
5	5	Introduction to Jane Austen Mansfield Park
6	5	Mansfield Park by Jane Austen
7	1	Dream Children: A Reverie

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	On Shakespeare by Thomas Carlyle
9	5	Tss of the D'Urbervilles by Thomas Hardy
10	3	The Battle of the Books by Jonathan Swift
11	2	The Daredevil Barber by Robert Lynd
12	4	What I Believe by E. M. Forster
13	4	Sweetness and Light by Mathew Arnold
14	3	Introduction to Aldous Huxley
15	3	Comfort by Aldous Huxley

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LESSON PLAN

Name of the Staff	**JACKULINE SUGANTHI T**	Academic Year	**2023-2024**
Department	**English**	Semester	**2**
Subject	**18PEN23 : MODERN LIGUISTICS AND STYLISTICS**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The Study of Language_Some Fundamental Concepts
2	1	Modern Linguistics:A Historical survey
3	1	The Study of Grammar_Morphology,Word Formation
4	2	Phonetic Transcription,Basic Sentence Patterns
5	2	Structural Grammar,T.G.Grammar
6	3	The Study of Semantics_Theories of Semantics
7	3	Semantics, Pramantics and Discourse, Principles of Lexicography

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	CIA
9	4	The Problem of Style.Rhetoric_ Various definitions
10	4	What is Stylistics? History_Varieties
11	5	Stylistics of Prose and Practical analysis
12	5	Stylistics of Poetry and Practical analysis
13	5	Stylistics of Drama and Practical analysis
14	5	CIA
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**English**	Semester	**1**
Subject	**18PEN11 : ENGLISH POETRY**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Paradise Lost Book 9
2	1	Prologue to Canterbury Tales
3	2	Mac Flecknoe by John Dryden
4	4	The Wasteland by T. S. Eliot
5	2	The Canonisation by John Donne
6	2	To His Coy Mistress by Andrew Marvell
7	4	Introduction to William Wordsworth

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Nutting
9	3	Introduction to John Keats
10	3	Ode to Autumn Ode on a Grecian Urn
11	3	Introduction to S. T. Coleridge The Rime of the Ancient Mariner
12	3	Introduction to P. B. Shelley Ode to a Skylark
13	5	Introduction to Robert Browning Andrea del Sarto
14	5	The Express by Stephen Spender
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**English**	Semester	**2**
Subject	**18PEN24 : LITERARY CRITICISM**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Poetics by Aristotle
2	1	Poetics by Aristotle
3	1	An Apology for Poetry by Philip Sydney
4	2	An Essay of Dramatic Poesy
5	2	Preface to Shakespeare by Samuel Johnson
6	3	Preface to Lyrical Ballads by William Wordsworth
7	3	Preface to Lyrical Ballads by William Wordsworth

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	CIA
9	4	Art of Fiction by Henry James
10	4	Tradition and Individual Talent by T. S. Eliot
11	5	Aspects of Novel by E. M. Forster
12	5	Archetypes of Literature by Northrop Frye
13	5	Archetypes of Literature by Northrop Frye
14	0	CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**English**	Semester	**2**
Subject	**18EPEN25 : ENGLISH LANGUAGE TEACHING (ELT)**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The Nature of Approaches and Methods in Language Teaching
2	1	Methods and Approaches
3	2	First Language Acquisition
4	2	Second Language Learning
5	3	Oral and Situational Language Teaching
6	3	Grammar Translation
7	1	C I A

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Curriculum Designing
9	4	Testing
10	4	Evaluation
11	5	Error Analysis
12	5	Self Study
13	2	C I A
14	1	Revision
15	3	Revision

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LESSON PLAN

Name of the Staff	**ASHOK KUMAR K Dr**	Academic Year	**2023-2024**
Department	**English**	Semester	**2**
Subject	**18PEN22 : AMERICAN LITERATURE**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	introduction to robert frost introduction to mending wall critical analysis of mending wall
2	1	introduction to wallace stevens introduction to peter quince at the clavier critical analysis of peter quince at the clavier
3	2	introduction to american renaissance introuction to e.e.cummings among crumble people an introduction critical analysis of among crumble people
4	2	ezra pound an introduction introduction to a pact critical analysis of a pact
5	2	sylvia plath an introduction sylvia plath's mirror an introduction critical analysis of mirror
6	3	drama an introduction american drama an analysis arthur miller an introduction
7	3	arthur miller's death of a salesman death of salesman an analysis

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	death of a salesman act l death of a salesman act ll death of a salesman act lll
9	3	Marsha Norman' Night Mother Night Mother act I Night Mother act II
10	3	Night Mother act III Night Mother act IV
11	4	Introduction About American Prose Emerson' s Self Reliance
12	4	Self Reliance Civil Disobedience
13	4	Civil Disobedience
14	5	John Stein becks' 'The Grapes of Wrath. An American Dream
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**English**	Semester	**1**
Subject	**18PEN12 : INDIAN LITERATURE IN ENGLISH**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sri Aurobindo : Thought the Paraclete
2	1	A.K. Ramanujan : River
3	2	Sarojini Naidu : Coromandal fishers
4	2	Manju Kapur : Difficult Daughters
5	2	Manju Kapur : Difficult Daughters
6	2	Manju Kapur : Difficult Daughters
7	0	Girish Karnad : The Dreams of Tipu Sultan

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA
9	3	Girish Karnad : The Dreams of Tipu Sultan
10	4	N.Chaudari - Passage to England
11	4	N.Chaudari - Passage to England
12	4	Sashi Deshpande- Small Remedies
13	0	Sashi Deshpande- Small Remedies
14	0	II CIA
15	0	REVISION

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**English**	Semester	**1**
Subject	**18PEN14 : 20 TH CENTURY BRITISH LITERATURE**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	W.B. Yeats : Second Coming Rupert Brooke : Helen and Menelaus
2	1	T.S. Eliot :Preludes Seamus Heaney : The Tollund Man
3	2	Larkin : Water Dylan Thomas : Do Not Go Gentle Into That Good Night
4	3	D.H.Lawrence- Sons and Lovers
5	3	D.H.Lawrence- Sons and Lovers
6	3	C.P. Snow : Two Cultures
7	0	Samuel Beckett : Waiting for Godot

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	I-CIA
9	4	Samuel Beckett : Waiting for Godot
10	5	Virginia Woolf : Mrs. Dalloway
11	5	Bertrand Russell- In Praise of Idleness
12	5	George Orewell-Politics and English Language
13	0	Arthur C. Clarke : Childhood's End
14	0	II CIA
15	0	REVISION

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**English**	Semester	**2**
Subject	**18PEN21 : ENGLISH DRAMA**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	THE SPANISH TRAGEDY- THOMAS KYD
2	1	THE SPANISH TRAGEDY- THOMAS KYD
3	2	EDWARD -II - CHRISTOPHER MARLOWE
4	3	THE PILGRIMS PROGRESS- JOHN BUNYAN
5	3	THE PILGRIMS PROGRESS- JOHN BUNYAN
6	4	ALL FOR LOVE - JOHN DRYDEN
7	4	PROMETHUS UNBOUND- P.B.SHELLY

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	PROMETHUS UNBOUND- P.B.SHELLY
9	4	OSCAR WILDE- LADY WINDEMERE'S FAN
10	5	MURDER IN THE CATHEDRAL -T.S. ELIOT
11	5	PYGMALION- G.B.SHAW
12	5	PYGMALION- G.B.SHAW
13	5	PYGMALION- G.B.SHAW
15	5	THE BIRTHDAY PARTY- HAROLD PINTER
14	5	THE BIRTHDAY PARTY- HAROLD PINTER

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LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**English**	Semester	**3**
Subject	**18EPEN35 : Advanced Academic Writing**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	a) Writing Draft b) Language & Style, Research Proposal
2	1	c) Thesis Statement
3	2	a) Summarizing, Paraphrasing & Synthesizing
4	2	b) Feedback & Evaluation
5	3	a) Reading for Information
6	3	b) Reading Comprehension & Vocabulary
7	0	I CIA Revision

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA
9	4	c) Quotations d) Capitalization & personal names in language
10	5	a) Plagiarism and Academic Integrity
11	5	b) Readability
12	5	c) Sample References Dictionaries, Books, Using The Library, References, Introspect and Discuss.
13	2	II CIA Revision
14	2	II CIA
15	5	Overall Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**18EPEN44 : Anatomy of Literature**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The form of prose – vocabulary – grammar and idioms - written and spoken prose – the paragraph – prose rhythm – individual and common style – common style and cheap style – simplicity and ornamentation – objective and subjective
2	1	Abstract and concrete – realism, romance and unreality – special inventions – prose for its own sake – the historical approach – the science of rhetoric – writing prose.
3	2	The importance of form – the physical form of poetry – metre – variation – rhyme – onomatopoeia – internal pattern – form in intonation – repetition – the main types of poetry – logical sequence
4	2	The use of associations – patterns of imagery – traditional verse forms – free verse – the choice of words – illustrations - cautions – twentieth century techniques.
5	3	The concept of fiction – verisimilitude – the point of view – plot – character – character revealed – conversation – scene and background
6	3	Dominant themes – the experimental novel.
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Live literature – action – plots – conventional divisions
9	4	Direct experience of characters – dialogue and conversation – verse and prose
10	4	Types of drama – drama and history – use of notes – interpretation.
11	5	What is film? – Film, Cinema and Movie – A Brief History – Beginning and Growth of Cinema
12	5	Film Genres: Documentary (Factual Film) Fantasy, Animation, Film Noir, Expressionist/German Expressionism
13	5	Mythological Films, Digital Film
14	5	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**Mr. V. R. Suresh Kumar**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**18JPEN01 : PROJECT WORK**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	0	Project Work
2	0	Project Work
3	0	Project Work
4	0	Project Work
5	0	Project Work
6	0	Project Work
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	Project Work
9	0	Project Work
10	0	Project Work
11	0	Project Work
12	0	Project Work
13	0	Project Work
14	0	II CIA
15	0	Revision

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LESSON PLAN

Name of the Staff	**JACKULINE SUGANTHI T**	Academic Year	**2023-2024**
Department	**English**	Semester	**3**
Subject	**PEN32A : Shakespeare**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Shakespeare
2	1	Elizabethan Theatre and Audience
3	1	Aspects of Shakespeare
4	1	Shakespearean Comedy, Tragedy, The Elizabethan Theatre and Audience
5	2	As You Like It Acts IV &V
6	5	Sonnets 14,17,18
7	3	Othello

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Othello
9	5	Sonnets 28,33,36,46
10	5	Sonnets 126,142,151
11	2	King Lear
12	3	The Tempest
13	4	Romeo and Juliet
14	5	Revision
15	1	Revision

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LESSON PLAN

Name of the Staff	**JACKULINE SUGANTHI T**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**18PEN43 : Comparative Literature and Literatures in Translation**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Comparative literature_Definition_ Scope and revelance
2	2	Divine Comedy by Dante
3	2	Divine Comedy by Dante
4	2	Silappathikatam by St. Ilango
5	3	Oedipus Rex by Sophocles
6	3	Sakuntalam by Kalidasa
7	3	The Cherry Orchard by Anton Chekhov

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	CIA
9	4	The Stranger by Camus
10	4	Godan by Prem Chand
11	5	Once an Actress by Jayalanthan
12	5	Chemmeen by Thagazhi S.Pillai
13	5	Revision
14	5	CIA
15	5	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JACKULINE SUGANTHI T**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**18JPEN01 : PROJECT WORK**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Twentieth century British Drama and American Drama
2	2	Fiction
3	3	Poetry
4	4	Movements and Genres
6	5	Literary Criticism, Language Skills
7	5	Thesis _ Selecting a Topic
8	5	CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
9	5	1Chapter
10	5	2Chapter
11	5	3Chapter
12	5	4Chapter
13	5	5Chapter
14	5	CIA
15	5	Revision
5	4	Topic_Selection

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LESSON PLAN

Name of the Staff	**Dr. X. Ann Lanka Jeyadharshini**	Academic Year	**2023-2024**
Department	**English**	Semester	**3**
Subject	**PEN33A : Contemporary Critical Theory**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction Allen Tate Tension in Poetry
2	2	Introduction to Victor Shklovsky Art as Technique
3	1	Introduction to Northrop Frye
4	1	Literature as Context: Milton's Lycidas
5	3	Hamlet_The Psycho Analytical Solution by Ernest Jones
6	5	Is There a Text in This Class? By Stanley Fish
7	2	Marxism and Literature by Raymond Williams

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Crisis by Edward Said
9	4	Crisis by Edward Said
10	4	Introduction to David Lodge
11	4	Modernism, Anti modernism and Post modernism
12	5	Introduction to Toril Moi
13	5	FemInist,Female,Feminine
14	5	Seminar
15	4	Revision

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LESSON PLAN

Name of the Staff	**Dr. J. P. Ida Joicey**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**18PEN42 : Post Modern Literature**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Beginning theory chapter on postmodernism
2	2	Valentine by Carol Ann Duffy.
3	2	If you forget me by Pablo Neruda.
4	2	No more cliches by Octavio paz.
5	2	The blue house by Tomas transtromer.
6	3	Lear by Edward bond.
7	3	The real inspector hound by Tom stopped.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	Conduct of CIA I
9	4	The second bakery attack by Harli Murakami.
10	5	One hundred years of solitude.
11	5	Great Indian novel.
14	0	Conduct of CIA II
15	0	Revision has to be done
12	5	Historical context of The Great Indian novel
13	5	Character and plot of The Great Indian novel

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**English**	Semester	**3**
Subject	**PEN31A : Feminist Theory and Practice**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Liberal feminism
2	1	Radical Feminism
3	3	Mother of 1084
4	3	Mother of 1084
5	4	Vindication of the rights of women
6	4	Towards Feminist Poetics
7	1	Marxist feminism

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Marxist feminism
9	1	Cyber feminism
10	1	Post feminism
11	1	Social feminism
12	4	Fasting Feasting
13	5	Poem
14	4	Brides are not for Burning
15	1	Revision

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LESSON PLAN

Name of the Staff	**Dr. M. A. Mary**	Academic Year	**2023-2024**
Department	**English**	Semester	**4**
Subject	**18PEN42 : Post Modern Literature**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Historiographic metafiction
2	1	Historiographic metafiction
3	1	Historiographic metafiction
4	2	Valentine
5	2	The Blue House
6	3	Lear
7	3	Lear

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	C I A
9	4	The Real Inspector Hoind
10	4	The Real Inspector Hoind
11	5	Great Indian Novel
12	5	Great Indian Novel
13	5	Great Indian Novel
14	2	C I A
15	1	Revision

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**English**	Semester	**3**
Subject	**18EPEN35 : Advanced Academic Writing**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Note -taking Brain Storming Mind Mapping
2	1	The Product Approach The Process Approach
3	2	Strategies & Skills Categorizing Reading Sources
4	2	Spelling Punctuation
5	3	Italics Name of persons
6	3	Bibliography
7	0	I CIA

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Lectures, Seminars, Oral Presentation,
9	4	Annotated Bibliography
10	5	Parenthetical Documentation
11	5	Verbalizing Data, .
12	5	Individual Speech Difficulties
13	0	REVISION
14	0	II CIA
15	0	REVISION

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LESSON PLAN

Name of the Staff	**LENIN A MR**	Academic Year	**2023-2024**
Department	**English**	Semester	**3**
Subject	**18PEN34 : Subaltern Literature**	Course	**English**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	POETRY (DETAILED) 1. Claude Mc Kay : Harlem Shadows 2. Siegfried Sassoon : A Subaltern 3. Rudyard Kipling : The Post that Filted
2	1	4. Sir Henry Newbolt : A letter from the Front 5. Langston Hughes : I, Too, Sing America
3	2	Detailed Drama The Vultures by Vijay Tendulkar
4	2	Short story non detailed Bandhu Madhav- Poisoned Bread
5	3	Unit 3-Fiction Karukku-Bama Biography of Bama Introduction to the Novel Critical Analysis of the Novel Women Empowerment in Karukku On firm Ground-Jatin Bala-Non detailed Prose -Critical Essay
6	5	Unit -5 Drama Hayavadana by Girish Karnad
7	3	Fiction Mulk Raj Anand : Coolie

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Fiction Mulk Raj Anand : Coolie
9	3	Fiction Sivakami : Pazhayana Kazhidalum (In the Grip of Change)
10	3	Fiction Sivakami : Pazhayana Kazhidalum (In the Grip of Change)
11	3	Thakazhi Sivasankara Pillai : Scavenger’s Son
12	3	Thakazhi Sivasankara Pillai : Scavenger’s Son
13	4	Drama Detailed The Vultures-Vijay Tendulkar
14	2	Short Story-Non Detailed Jatin Bala- On Firm Ground Amitov Ghosh-In an Antique Land
15	5	Drama Athol Fugard- My Children! My Africa Portion Completed

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LESSON PLAN

Name of the Staff	**ALICE MATHAI Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**EPCM705S : MANAGERIAL ECONOMICS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Managerial Economics-Meaning-Definition-Features–Nature and Scope of Managerial Economics --Difference between Managerial Economics and Business Economics.
2	1	Economic theory and managerial theory-Opportunity cost-Equi marginal Principle-Incremental Principle-Principle of Time Perspective-Discounting Principle
3	1	Relationship of Managerial Economics and other disciplines-Decision making process-Objectives of a Firm -Social Responsibility of Business.
4	2	Demand Forecasting- Meaning – Purpose-Long term and short term forecasting– Methods of Demand Forecasting – Survey Methods
5	2	Expert opinion–Market Experiments – Econometric method--Statistical Methods-
6	2	Forecasting Demand for New products-Criteria for Good Forecasting Method.
7	3	Capital Budgeting-Meaning- Definition-Pre-Requisite of Capital Budgeting -Nature of Capital Budgeting-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Methods Of Appraising Profitability.
9	4	Pricing Methods-Product pricing -Cost oriented -Full cost -cost plus-marginal cost-advantages & disadvantages
10	4	competition oriented-Pricing in a Perfect competition-Imperfect competition-Monopolistic competition-Oligopoly-Duopoly.
11	4	Pricing a new product- Price discrimination-meaning-International price discrimination and dumping-
12	4	Cost Function – Revenue Function – Equilibrium of the Firm – Break-Even Analysis .
13	5	Linear Programming-Meaning-Features- Formulation of Linear Programming Problems – Graphical Solution.
14	5	Simplex Method-meaning-solution with the help of simplex method
15	5	REVISION

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LESSON PLAN

Name of the Staff	**Dr.JAMES MARY P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**PCM702Q : CONSUMER BEHAVIOUR**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	consumer behaviour – introduction, Meaning, definition and relevance of consumer behaviour study – growth of consumer research – trends in consumer behavior.
2	1	Models of consumer behavior: Howard Sheth model – Nicosia model – Webster and Wind model of organizational buying behavior - revision.
3	2	Meaning, definition of consumer perception – perceptual process.
4	2	Perceptual selection – perceptual organization – perceptual interpretation.
5	2	Consumer imagery and marketing implications – Sherif's social judgment theory – perceived risk – revision.
6	3	Meaning and properties of personality, theories of personality: Trait theory – Freudian theory.
7	3	Neo Freudian theory – Jung's personality types – self concept – Definition and characteristics of attitude.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Components of attitude.– dynamic characteristics of motivation – motivational research.
9	3	revision of 1st, 2nd & 3rd units
10	4	Reference Group meaning and characteristics influencing consumer behavior – types of reference groups.
11	4	Groups relevant to consumer behavior – benefits of reference group appeal – definition and meaning of culture.
12	4	Characteristics of culture – traditional and changing Indian values – sub culture – women and consumer protection rights - revision.
13	5	Meaning and definition of customerisation – relationship between consumer expectations and satisfaction – factors affecting consumer satisfaction – tackling consumer dissatisfaction – handling of customer complaints.
14	5	Meaning of consumerism – reasons behind rise of consumerism – benefits of consumerism –features of Government measures regarding consumer protection revision.
15	5	revision of 4th & 5th units.

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LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**PCM704S : STRATEGIC MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Strategic Management: Definition – Scope – Benefits – Risks – Approaches - Process and Roles- Corporate Vision, Mission & Philosophy.
2	1	Strategic Management in different contexts -Ethics and Social Responsibility
3	1	Strategic Leadership and Decision making
4	2	Situation Analysis: SWOT Analysis - Environmental Scanning and Industry analysis – Forecasting – Internal Scanning
5	2	Mission – objectives – Stakeholder Theory – Cyert and March's Behavioral Theory -Porter's Five Forces Model
6	3	Strategy Formulation: Business Strategy – Corporate Strategy – Divertional Strategy
7	3	Portfolio Analysis – BCG Growth /Share matrix – Strategic choice – Development of policies

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Strategic Alliances.
9	4	Strategy Implementation: Organization for action – Staffing – Leading – MBO –Total Quality Management
10	4	Functional Strategies – Growth Strategies – Diversification, Acquisition and Joint Venture
11	4	Recovery – Recession and Divestment Strategies – Management Buyout
12	5	Strategic Control and Evaluation : Establishing Strategic control – premise control – Implementation control
13	5	Strategic Surveillance – Special Alert Control – Evaluation Techniques – Managing change
14	5	Strategic issues in Managing Technology and Innovation – Strategic Effectiveness.
15	5	Revision and Test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VAITIANADANE @ ANBOUNADANE P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**PCM806T : FINANCIAL MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Financial Management: Introduction – Meaning – Definition – Scope – Objectives –Significance-Methods.
2	1	Tools of Financial Management - Role of Finance Manager-
3	1	Time value of money- Introduction-Meaning-Definition-Methods of analysis.
4	2	Financial Planning and Capital Budgeting : Meaning – Factors affecting financial planning
5	2	Importance-Limitations of financial planning
6	2	capital budgeting – meaning and techniques
7	3	Capital Structure – Introduction – Meaning – Definition – Features-Factors Determining Capital structure

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theories of capital structure
9	3	Revision for I- CIA
10	4	Working Capital – Introduction – Meaning – Definition – Types – Importance-Determination of working capital requirements
11	4	Forecasting of working capital requirements
12	4	Cash Management – Introduction – Meaning-Objectives
13	5	Cost of Capital-Introduction – Meaning – Definition-Importance-Components-Factors Determining cost of capital-Types of cost of capital-Computation of cost of capital
14	5	Leverage-Introduction-Meaning-Definition-Types of Leverage. Dividend Policy- Introduction – Meaning – Definition – Nature – Objectives-Factors determining- Dividend theories-Types of dividend.
15	5	Revision for II - CIA

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**PCM703T : INSURANCE AND RISK MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of Insurance – Insurable risk – Principles of insurance – Kinds of insurance
2	1	Costs and benefits of insurance , industrial society and business
3	1	Pooling in insurance – Factors that limit the insurability of risk – Reinsurance.
4	2	Insurance business in India – Framework of insurance business – privatization of insurance business
5	2	Insurance Regulatory and Development Authority (IRDA) – Govt. Policy on insurance sector.
6	3	risk meaning, rules and regulation of risk and benefits.
7	3	Understanding Risk: Types of risk – Risk management - Objectives - Risk identification

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Pooling arrangements and diversification of risk.
9	0	revision
10	4	Risk aversion and demand for insurance – By individuals- By corporations- Insurability of risk- contractual provisions-
11	4	Legal doctrine- - Loss control –Risk retention and reduction decisions.
12	5	Analytical tools used in corporate risk management
13	5	products liability – Environmental liability – Directors and Officers liability
14	5	Issues in liability risk and management. , rights and duties of officers.
15	0	revision.

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LESSON PLAN

Name of the Staff	**Dr.RADHAKRISHNAN A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**PCM807T : LEGAL ENVIRONMENT OF BUSINESS**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Partnership, meaning, Essential of the partnership, kinds of partner. Position of minor partner. Rights and duties of partner.
2	1	Rules governing mutual retirement. Limited liabilities of partner. Income tax implication of firms. Permanent account number of forums.
3	2	Factory act. Factory meaning, and definition, worker,meaning,,process of manufacturing. What isHealth legal provision of health.cleanless,dust and fume, overcrowding, lighting, drink water, spittoon.
4	2	Safety ,meaning, definition, legal provisions of safety, fencing of machinery, work on near machinery in motion, self acting machine, casing of new machinery, revolving machinery, pressure machine, etc.
5	2	Welfare meaning and definition, Legal provisions of welfare. Washing facilities, facilities for sitting, and drying clothing, first aid appliance, canteens, creches.
6	2	Working hours Adults .Working hours meaning, weekly hours, Daily hours. Intervals for rest. Etta wages fort overtime. Ordinary rate of wages .Employenmemt of Women, Experience of Young person.
7	3	Industrial dispute Act, defining. Strikes meaning and definition ,objectives of the act.Extend of the act. Definition of Industry.Rules and regulation of Individual and collective disputes..

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Lay off, meaning .Accumulation of stock, breakdown of machinery, failure or refusal or liability of the employer. Lock Out Meaning, essentials of lock out. Difference between Lock out and Lay off.
9	3	Revisions of 1st ,2nd ,and 3rd.
10	4	Workmen, s compensation Act meaning, definition. Objects of work men compensation act. Defence available to employers before passing the act. Scope and Coverage of the act.
11	4	Employers laibality for compensation. Rules regarding workmen, s compensation. List of occupational diseases.
12	4	Rules regarding Workmen men compensation, Employer, s laibality for compensation defences available to employers. Amount of compensation. Notice and Claim, medical Examination.
13	5	Employers, State Insurance Act 1948, Definition after act, Exemption the act General provision of the act standing committee of the act. Application of the act.
14	5	Contribution of Employees state insurance .medical benefit Council. General provisions of Officers and staff. Rate of contribution, methods of calculationE..S. I Find. Contribution and Benefits of E. S. I.
15	5	Revisions of 4 th and 5th Unit.

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**PCM809A : ADVANCED ACCOUNTING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ACCOUNTING STANDARD -Introduction – Meaning – Definition – Objectives – Need – Significance-International Accounting Standards
2	1	Accounting Standards in India-Scope of Accounting Standards-Procedure for formulation and Issuing Accounting Standards-Applicability.
3	5	INSURANCE COMPANY ACCOUNTS-Introduction – Meaning-Types of Insurance-Preparation of final accounts of insurance company-Life
4	5	Insurance Business-Revenue Account (Form A-RA)-Profit and Loss account (Form A-PL)
5	5	Balance sheet (Form A-BS)
6	5	Accounts of general insurance company-Revenue account (Form B-RA)-Profit and Loss account (Form B-PL)-Balance Sheet (Form B-BS).
7	2	Amalgamation – Introduction-Meaning (Accounting Standard 14)-Types of amalgamation-Amalgamation in the nature of Merger-In the nature of Purchase-Computation of Purchase Consideration-Lump sum method-Net payment method-Net asset method-Intrinsic value ...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Absorption – Meaning-Methods- Net payment method-Net asset method-Intrinsic value method-External Reconstruction – Introduction – Meaning – Methods-Lump sum method-Net payment method-Inter company holding excluded.
9	1	Revision 1
10	3	Holding Company – Introduction – Meaning – Definition-Subsidiary Company –Meaning-Capital Profit-Revenue profit-Minority Interest
11	3	Goodwill/Capital reserve-Unrealized profit-Computation of consolidated balance sheet (As per Revised Schedule VI).
12	4	BANK ACCOUNTS-Introduction – Meaning-Business of banking companies-Legal requirements-
13	4	Preparation of profit and loss accounts (Form ‘B’ of Schedule III)
14	4	Balance Sheet (Form ‘A’ of Schedule III)
15	2	Revision 2

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LESSON PLAN

Name of the Staff	**SAVARIMUTHU I Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**19PCM808 : MICRO,SMALL&MEDIUM ENTERPRISE MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Micro, Small and Medium Enterprises - Meaning and Definitions- Historical perspectives of MSME's and categories of development in MSME's.
2	1	Characteristics-needs of MSME's-advantages and limitations-forms of small enterprises-Performance of small enterprises-Problems of Small Enterprises.
3	1	Starting an Enterprise-Entrepreneurship Memorandum-Registration-Role of MSME's in economic development - revision.
4	2	Financing MSME's –Reasons for lending to MSME's –Sources of Financing MSME's.
5	2	Loan Products and their Nature-Credit process-The Credit assessment and MUDRA Scheme - revision.
6	3	Rationale Behind tax benefits- Tax Holiday-Depreciation-Rehabilitation Allowance-Investment Allowance.
7	3	Expenditure on Scientific research-Amortization of Certain Preliminary Expenses-Tax Concession to Small-Scale Industries in Rural Areas & Backward areas.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Expenditure on Acquisition of Patents and Copyrights-Incentives and Concession for Small-Scale and Tiny Industries - revision.
9	3	Revision of 1,2 &3 units
10	4	Need for institutional support-NSIC-SIDO-SSIB.
11	4	Need for institutional support - SISI-DIC-Industrial Estate-EDII-NIESBUD.
12	4	Organizations under the control of State Government-Incentives and Subsidies available for MSME's in India - revision.
13	5	Sick Units: Meaning and Definition - Causes of Sickness - Symptoms of Sickness-Classification of Sick Units.
14	5	Preventive Measures-Guidelines for Rehabilitation of MSME's - MSME debt Restructuring Mechanism-Willful defaulters - revision.
15	5	Revision of 4 & 5 units.

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LESSON PLAN

Name of the Staff	**Dr.BENJAMIN ROZARIO P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**2**
Subject	**EPCM810Q : BUSINESS ENVIRONMENT AND POLICY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Business Environment: Concept - Nature and scope- types-– internal environment and external environment- Factors influencing business environment
2	1	Economic – Social- Cultural - Political environment and technical environment; Environmental analysis
3	1	Environment scanning - Monitoring - Changing dimensions in business environment
4	2	Economic Environment: Concept – Nature and scope - Structures of the economy - Economic policies and conditions
5	2	Economic planning - Industrial policy - 6 foreign investments - Foreign technology agreements
6	2	Merits and demerits of the policy – FEMA - Monetary and fiscal policies - New economic policy.
7	3	Political and legal Environment: Concept- Political institutions - Rationale and extent of state intervention - Reasons for state intervention - Types of intervention

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Extent of interventions - Government Business interface – Legal environment – Competition Act 2002 - Consumer Protection act and Consumerism.
9	3	Revision
10	4	Socio Cultural Environment: Concept - Nature - Impact - Business participation in cultural affairs
11	4	Social responsibility of business – Business and society - Business ethics
12	4	Business codes of conduct – Role of trade Association in Business ethics.
13	5	Global Environment: Concept - Nature and scope - Rationale for global environment
14	5	Benefits and problems of MNCs - Strategies for going global - India, WTO and the trading blocks.
15	5	Revision

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**1**
Subject	**PCM701A : QUANTITATIVE TECHNIQUES**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Probability: Basic definitions Axiomatic approach to Probability –Basic theorems on Probability , Addition theorem on probability and Addition theorem on probability related problems.
2	1	Conditional probability – Multiplication theorem of probability and Multiplication theorem related problems – Independent events – Pair wise Independent events (definition only).
3	1	Baye's theorem and Bayes theorem related problems.
4	2	Tests of Significance (small samples) based on t, F distributions with respect of Mean, Variance and Correlation coefficient.
5	2	Test of Significance based on Chi-Square test: Test for Independence of attributes.
6	2	Test of Significance (large samples) based on Population Proportion, Mean, Variance and Correlation coefficient.
7	3	Analysis of Variance: One way and two way classifications General procedure and related problems. Basic principles of ANOVA.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	CRD General procedure and related problems. RBD General procedure and related problems.
9	3	LSD General procedure and related problems.
10	4	LPP-feasible and optimal solutions-Graphical method, simplex methods problems Transportation problems
11	4	North west corner method related problems.
12	4	Least cost method and Vogel's approximation method problems
13	5	Inventory model General concepts and definitions basic problems various cost concepts
14	5	The technique of inventory control EOQ model. related problems,
15	5	Deterministic of Inventory models.

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LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**PCM915Q : INTERNATIONAL MARKETING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTERNATIONAL MARKETING: NATURES,DEFINITION AND SCOPE OF INTERNATIONAL MARKETING
2	1	DOMESTIC MARKETING V/s INTERNATIONAL MARKETING-STAGES OF INTERNATIONAL MARKETING
3	1	INTERNATIONAL MARKETING ENVIRONMENT-EXTERNAL AND INTERNAL IDENTIFYING
4	1	SELECTING FOREIGN MARKET: FOREIGN MARKET ENTRY MODE DECISION-CHALLENGE OF INTERNATIONAL MARKETING
5	2	DEVELOPING GLOBAL MARKETING STRATEGIES-GLOBAL MARKETING MANAGEMENT
6	2	PLANING AND ORGANIZATION-INTERNATIONAL MARKETING INFORMATION SYSTEM
7	2	MARKET RESEARCH- MARKETING RESEARCH-METHODOLOGY FOR MARKETING RESEARCH – INTERNATIONAL RESEARCH STRATEGY

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	DESK RESEARCH AND FIELD RESEARCH-MARKET ORIENTED INFORMATION
9	2	INTERNATIONAL MARKETING INTELLIGENCE-COMPETITIVE INTELLIGENCE
10	2	UNDERSTANDING GLOBAL CONSUMERS-CULTURAL DYNAMICS IN ASSESSING GLOBAL MARKETS
11	3	INTERNATIONAL PRODUCT POLICY-PRODUCT POSITIONING IN FOREIGN MARKET
12	3	PRODUCT STANDARDIZATION AND ADOPTION-BRANDS
13	3	TRADEMARKS,PACKAGING AND LABELING-INTERNATIONAL MARKETING OF SERVICES
14	3	INTERNATIONAL PRODUCT PRICING POLICY
15	3	EXPORT PRICING-PRICING FOR INTERNATIONAL MARKETS

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SANTHANARAJ L Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**PCM1017Q : E-COMMERCE**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to E-Commerce – E-Trade – E-Business – E-Market
2	1	A paradigm shift – Technology Convergence – Advantages and Disadvantages of E-Commerce
3	1	E-Business Models – Introduction to Mobile Commerce.
4	2	E-Marketing – Meaning – Channels – E-Marketing Mix
5	2	Web Salesmanship – online shopping avenues
6	2	Advertising on Network – EDI Architecture and Properties Trading
7	3	E-Payment System – Types

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Business Issues and Economic implications
9	3	Components of an effective E-Payment System.
10	4	Electronic Data Interchange EDI – Definition – Objectives – Standards
11	4	Applicability – Approving authority– Cross Index
12	4	Related documents – Sources of documents.
13	5	Legal Framework for E-Commerce - Net threats
14	5	Cyber Laws – Aims and Salient Features of Cyber Laws in India
15	5	Cyber Crimes – Intelligent Web Design.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**EPCMP913 : COMPUTERIZED ACCOUNTING (PRACTICAL)**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Tally
2	1	Tally Accounting
3	1	3. Prepare Trading and Profit and Loss Account and Balance sheet of a company.
4	2	Tally Vouchers.
5	2	Cost category and cost centre.
6	2	Bank Reconciliation Statement.
7	3	Inventory and Stock.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Invoicing. Interest Calculation
9	1	Revision Test
10	4	GST Features.
11	4	TDS Analysis.
12	4	. Consolidation of Accounts.
13	5	Security control. Display and Reporting.
14	5	Scenario Management and Miscellaneous reports. Tally Audit.
15	2	Revision Test

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LESSON PLAN

Name of the Staff	**KRISHNAKUMAR R Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**EPCM1018 : IMPORT AND EXPORT MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Export –Import Policy Historical review and current Export
2	1	Import policy of the Govt. of India and its implications. Export
3	1	Import Licensing – Policy & Procedure, Incoterms.
4	2	Government Authorities– Department of Commerce, CCI&E, Cabinet committee, Board of Trade, Zonal Advisory Committee, State Govt.CommodityOrganiasation
5	2	Export Promotion councils, Commodity Boards, ECGC, Trade fair Authority, FIEO,
6	2	Exim Bank, DGCI&S, STC, and MMTC etc.Other Committees & Agencies– RBI, Customs & Central Excise Department, Central Warehousing Corporation.
7	3	Customs & Central Excise :Customs& Central excise

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Procedures related to exports and Imports,
9	3	Export Inspection council. REVISION
10	4	Significance of Export Documents
11	4	Type of documents, Trade documents
12	4	Regulatory documents.
13	5	Export procedure -Steps of Export procedure, Banking procedure of Export Documents-Bill of lading, Bill of Exchange,
14	5	Certificate of Origin, Marine Insurance Policy, Letter of Credit,
15	5	GR-1 Form, Schemes under Foreign Trade Policy. REVISION

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LESSON PLAN

Name of the Staff	**ANDREWS F Dr**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**PCM912Q : RESEARCH METHODOLOGY**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to research methods, meaning and definition, types of research,research methods, problem faced by the researchers, research process, various steps in research process. Review of literature
2	1	Review of literature, identification research gap, social relevance of research, research problem,sources, identification and developing research problem
3	1	Construction of research questions, framing and objective and hypothesis. Research design, concept meaning and definition types of research design
4	2	Research design, variable, meaning and definition, types of variables. Research design, types of research design, experimental and non experimental research design
5	2	Characteristic of good research design relationship between research problem and research design. Sampling design and data collection meaning and definition
6	3	Sample size, sampling design, meaning and definition, essential of good sampling design, met of sampling various types of sampling
7	3	Methods of sampling, Random and no Random sampling, error, sampling and non sampling errors, reduction of sampling error

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data meaning and definition, types of data, primary data different methods of collecting primary data, measurements of scale and scaling technique, construction of questionnaire,secondary data, various sources of secondary data
9	3	Revision of third and second unit
10	4	Data analysis, meaning and definition, steps in processing data, editing, coding, classification advantage and disadvantage,content analysis, tabulation, methods of tabulation
11	4	Application of statistics in data analysis, descriptive statistics, mean, median, mode, standard deviation, correlation and regression
12	4	Inferential statistics, chi square test, ANOVA, T TEST, F TEST tools for testing hypothesis, application of computers in modern research
13	5	Report writing concept and meaning and definition, process types of research report essential of good research report, stages in preparing research report, structure of research report.
14	5	Preliminary pages,main body of the report and reference material, guidelines and mechanic for preparing research report.
15	5	Fourth and fifth unit Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**PCM914T : INCOME TAX LAW**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	I Introduction Basic concepts -Assessee – Assessment year – Previous year- Income – Person- Gross Total Income – Total Income - Residential status –
2	2	Exempted incomes. UNIT-II Filing Procedure Filing of returns – Due dates of filing of return- Compulsory filing of return- E-filing
3	2	Types - Process of filing of return – Online – Off line. Return of loss – Belated return
4	2	PAN (Permanent Account Number) – Meaning – Notified Transactions where quoting of PAN is necessary
5	3	Procedure for Assessment Types of Assessments—Self assessment –Provisional assessment – Regular assessment
6	3	Best judgment Assessment – Reassessment - Time limit for completion of assessment and reassessment-calculation of period of time limit
7	3	Assessment in case of search or requisition for search conducted. –Provisions relating to Rectification of Mistakes –- Notice of demand

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Appellate Authorities Authorities of the Income-Tax Appellate Tribunal -- Jurisdiction - Territorial Jurisdiction of the Benches- Location of the Benches- Powers of the Authorities
9	1	revision
10	4	Territorial Jurisdiction of the Benches- Location of the Benches- Powers of the Authorities
11	5	Appealing Procedure, Penalty and TDS Introduction-Procedure for filing Appeals – Appeal before Commissioner (Appeal) Appeal before Income Tax Appellate Tribunal
12	5	Appeal before High Court – Appeal Before Supreme Court --- Deduction of tax deducted at source – Salaries, Interest on securities ,dividends
13	5	TDS-Salaries, Interest on other interest-casual incomes – Payment to contractors - Payment to Partners-
14	5	Payment to Non-Residents - Penalties and Prosecution
15	2	Revision

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LESSON PLAN

Name of the Staff	**ALBERT RAVI A**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**4**
Subject	**PCM1016T : NGO MANAGEMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit I Introduction: NGOs - Definition - Meaning - Characteristics- Advantages - Limitations
2	1	formation of NGOs Genesis and Growth; Scope of Operation;
3	1	Skills Required; Collaboration with Government. Unit II Organizations and Management: Administration and Management
4	2	Levels of Organization Governing body - Function - By-law - Policies Making;
5	2	Committees - Scope and Function; Membership - Types - Qualification - membership:Disqualification; Meeting - Quorum - Minutes
6	3	. Unit III Marketing and Financial Management of NGOs: Marketing Strategy for NGOs
7	3	- Project Mix - Project Addition - Project elimination; Promotion - Need - Methods - Fund Management -Narration-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sources; Grants/Scheme from Government - eligibility- Procedure; Funds from abroad – Procedural guidelines - FCRA - Micro Finance; Maintenance of Accounts - Audit of Accounts.
9	1	Revision
10	4	Unit IV Project Management: Projects - Definition - Meaning - Objectives - Types
11	4	; Process of Project Development - Project Writing - Problems in Project Formulation and Management
12	4	- Evaluation of Projects - Project Audit. Unit V NGOs and Tax Laws: Income tax 1961 - Income - Persons -Assessment year - Previous year;
13	5	Section 11 (General Deductions) -Section 13 (Forfeiture of Exemption)
14	5	- Section 34 A & B - Section80G - TDS; Indirect tax liabilities.
15	2	revision

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LESSON PLAN

Name of the Staff	**ARUL PRASAD P**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**PCM915Q : INTERNATIONAL MARKETING**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	International promotion policy
2	4	International Advertising
3	4	Developing international advertising strategy
4	4	International sales force
5	4	International sales force management
6	4	Forms of Promotion
7	4	Other forms of promotion for global markets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Revision
9	5	Overseas marketing channel policy
10	5	Managing international distribution channel
11	5	Multinational Retailers and Wholesalers
12	5	Global logistics
13	5	Contemporary issues in International marketing
14	5	Future prospects of International Marketing
15	2	Revision

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LESSON PLAN

Name of the Staff	**SAVARIMUTHU I Dr.**	Academic Year	**2023-2024**
Department	**Commerce**	Semester	**3**
Subject	**PCM911T : HUMAN RESOURCE DEVELOPMENT**	Course	**Commerce**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human Resource Development- Meaning, Features, Needs, Scope, Objectives, Functions, Process and Techniques of HRD
2	1	Functions and Attributes of HRD Management. Competency Mapping- Developing competencies- Personal Competency maturity model.
3	2	Employee Training: Introduction, Meaning, Purpose, Importance, Principles and Responsibility for training, Steps in Training Programme
4	2	Training methods – On the job training-Off the job training-Training evaluation –Principles of evaluation – Why training fails- Improving effectiveness of training.
5	3	Executive and Organization Development Introduction-Concepts and Objectives- Importance- Needs for executive development-Process of executive developments- Methods-Evaluation.
6	3	Reasons for failure of executive development programme- How to make executive development programme successfully? Organization development – meaning- characteristics-objectives.
7	3	Models- organization development interventions- individual focused- organization and group focused- factors influencing the choice of an organization development intervention - salient issues in organization development.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction to group Dynamics - Group-Meaning, types, why people join Group?- Group Norms
9	4	Revision of 1st, 2nd & 3rd units.
10	4	Group cohesiveness- Group behavior models of Homaus- Techniques for studying group behavior- Bales Laboratory technique and Sociometric analysis
11	4	Principles of group dynamics.
12	5	Career planning – meaning and need for Career planning – process of career planning and development.
13	5	succession planning - Career development – steps – career development actions
14	5	career development actions – career development initiatives and challenges - advantages of Career planning and development – recent trends.
15	5	Revision of 4th & 5th units.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19PBC11 : BIO ORGANIC CHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about proteins
2	2	1.N and C terminal determination of proteins 2.Protein structure
3	2	Hemoglobin structure and its allosteric effect Ramachandran plot
4	2	Allosteric models of Hemoglobin
5	2	Classification of proteins and amino acids
6	5	DNase Footprinting
7	5	EMSA-Gel retardation Assay

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	ChiP-Chromatin immunoprecipatation
9	5	Motifs-Introduction
10	5	Students Seminar
11	4	Students Seminar
12	3	Students Seminar
13	2	Students Seminar
14	1	Students seminar
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19PBC12 : CELL BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about Cell biology
2	2	Purification of organelles
3	3	Bright field microscopy and Phase contrast microscopy
4	4	SEM & TEM
5	5	FACS and marker enzymes
6	4	Signal transduction-introduction
7	4	Receptors-types

Cycle	Unit	Topics to be covered / Activity to be carried out
9	4	GPCR-cGMP mediated signals
9	4	GPCR- ion gated channels
10	4	NO mediated signals
11	4	signal transduction in rod cells
12	4	Ras kinase pathways
13	4	MAP kinase pathways
14	4	Cross talk in Signaling pathways
15	4	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19PBC21 : MOLECULAR BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about Molecular biology Central dogma of molecular biology Griffith Experiment
2	1	Avery et al Experiment Blender experiment
3	2	Meselson and Stahl experiment DNA polymerases in prokaryotes
4	2	Prokaryotic replication Steps involved in prokaryotic replication
5	2	Theta replication Sigma replication Student seminar
6	2	Inhibitors of replication
7	2	Eukaryotic replication Student seminar

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	RNA Polymerases,Prokaryotic Transcription Promoter
9	3	Eukaryotic transcription
10	4	Prokaryotic Translation Inhibitors of translation
11	4	post translational modification
12	4	Operon- Lac operon
13	4	Trp operon Eukaryotic translation
14	1	Revision
15	2	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19EPB14A : CLINICAL NUTRITION**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nutritional disorders
2	2	Basal metabolic rate
3	3	Vitamins
4	3	Macro and micro elements
5	4	Objectives of diet therapy
6	4	Modification in energy and other nutrients
7	4	Nutritional management in DM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Diet theraphy for cardiovascular disease
9	4	Renal disorders
10	4	Neurological disorders
11	4	Nutrition at different stage of life
12	4	Infancy nutritional requirement, neutraceuticals
13	5	Functional foods
14	5	Probiotics and prebiotics
15	5	Revision test

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**PBCP202 : ENZYMOLOGY PRACTICAL**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Effect of temperature on salivary amylase enzyme activity,Effect of PH on salivary amylase activity
2	1	Effect of substrate concentration on salivery amylase activity
3	1	Determination of activity and specific activity of salivary amylase
4	3	Determination of activity activity and Specific activity of urease
5	3	Determination of optimum temperature of Urease
6	3	Effect of pH on the activity of Urease
7	3	Effect of substrate concentration on the activity of urease.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Determination of optimum temperature of alkaline phosphatase
9	2	Determination of optimum pH of alkaline phosphatase.
10	2	Effect of substrate concentration on the activity of alkaline phosphatase. .
11	2	Determination of activity and specific activity of alkaline phosphatase.
12	1	Preparation of buffers
13	1	Determination of titration curve
14	4	separation of sugars by using TLC
15	1	Revision and model practical

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LESSON PLAN

Name of the Staff	**CELINE HILDA MARY S**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19PBC22 : ENZYMOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction,Classification and nomenclature of enzymes, IUB classification and EC numbers
2	1	General characteristics of enzymes.Facters affecting enzyme activity .Specificity of an enzyme
3	1	First and second law of thermodynamics. Free energy.First order and second order reactions .Law of mass action
4	2	Concept ofES complex.Activation energy.MM equation.
5	2	Significance of Km and Km.Vmax.Different plot for the determination of Km.Vmax.Active site investigations
6	2	Bi Bi mechanisms.PDH complex. Transition state theory .collision theory.
7	3	Acid base catalyst ,covenant and metal ion catalysts. Mechanism of action of the enzymes.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Proximity and orientation effect.Mechanism of action of chymitrypsin and lysozyme
9	3	Mechanism of action of Lysozyme, chymotrypsin, site directed mutagenesis.
10	3	Investigation of active site of enzymes_trapping ES complex,use of substrate analogue.
11	4	Regulation of enzymes activity, covalent modification
12	4	Reversible and irreversible inhibition
13	4	Allosteric inhibition_general mechanism of action- Aspartate trans carbomylase,PFk mechanism.
14	5	Types of inhibition, kinetics of competitive and noncompetitive inhibition. Immobilization and its applications
15	5	Ki and IC50. And Revision test.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19PBC13 : INTERMEDIARY METABOLISM**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Biological oxidation-reduction reactions, redox potentials, High energy phosphate compounds – phosphate group transfer, Glycolysis-regulation and energetics
2	1	PDH complex-citric acid cycle, regulation and energetic.ETC– oxidative phosphorylation-regulation and inhibition- uncouplers.
3	2	Pentose phosphate pathway. Gluconeogenesis, glycogenesis &glycogenolysis metabolism - regulation, glyoxylate cycle and Gamma aminobutyrate shunt pathways, Cori cycle.
4	3	anapleurotic reactions, glucuronate pathway. Hormonal regulation of carbohydrate metabolism.Glygogen storage disease. Amino Acids – General reactions of amino acid metabolism - Transamination, decarboxylation, oxidative & non-oxidative deamination of a...
5	3	Catabolism of carbon skeletons of amino acids tyrosine and aliphatic amino acids.Inborn errors of metabolism.
6	4	Introduction, hydrolysis of tri-acylglycerols, a-, ß-, ?- oxidation of fatty acids. Oxidation of odd numbered fatty acids .
7	4	PUFA– fate of propionate, role of carnitine, , Fatty acid biosynthesis, Acetyl CoA carboxylase, fatty acid synthase complex.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	biosynthetic pathway for tri-acylglycerols, phosphoglycerides and sphingomyelin .Metabolism of cholesterol and its regulation.Energetics of fatty acid cycle.degradation of complex lipids.
9	5	Nucleotides – Biosynthesis of Purines (de nova and salvage) - catabolism and regulation of purine.
10	5	biosynthesis of Pyrimidines - catabolism and regulation of pyrimidine biosynthesis.
11	5	Biosynthesis of NAD+/NADP+and FAD+.
12	4	Degradation of lipids, Energetics
13	4	Students seminar and discussion
14	5	Students seminar and discussion
15	1	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**PBCP101 : MAIN Practical - I**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of Ascorbic acid Estimation of protein by lowry's method
2	2	Estimation of Tryptophan Qualitative analysis of carbohydrates-Unknown mixture-1
3	3	Qualitative analysis of carbohydrates-Unknown mixture-2 Qualitative analysis of carbohydrates-Unknown mixture-3
4	4	Qualitative analysis of carbohydrates-Unknown sample-1 Qualitative analysis of carbohydrates-Unknown sample-2
5	5	Estimation of pyruvate Qualitative analysis of carbohydrates unknown mixture
6	6	Isolation of lipid from peanut sample Qualitative analysis of carbohydrates unknown mixture
7	7	Isolation of glycogen from liver Estimation of glucose by Anthrone method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Qualitative analysis of amino acid-trytophan Qualitative analysis of amino acid-histidine
9	9	Qualitative analysis of amino acid-unknown mixture Qualitative analysis of amino acid-unknown mixture
10	10	Isolation of DNA Estimation of DNA
11	11	Isolation of RNA Estimation of RNA
12	12	Separation of amino acid by paper chromatography
13	13	Separation of carbohydrates by paper chromatography
14	14	MODEL PRACTICAL EXAM
15	15	Revision & Record correction

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**1**
Subject	**19PBC12 : CELL BIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Membrane structure, RBC membrane, subcellular organelles mitochondria nucleus , Golgi complex.
2	1	Peroxisome and glyoxysome types membrane endoplasmic reticulum
3	2	Microfilaments, microtubule, intermediate filament
4	2	Cila and filagella and mitochondria
5	3	Cell cell interaction , cell cell adhesion
6	3	Cell cell junction
7	3	Cell adhesion molecules Catherine and connexion

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Cell cycle different phases
9	5	Check points in cell cycle
10	5	Regulation in cell cycle
11	5	Apoptosis pathway
12	5	Apoptosis regulators and it's effectors
13	5	Properties of tumor cells
14	5	Genetic basis and onset of cancer
15	5	Tumor suppressor gene and necrosis

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**2**
Subject	**19PBC23 : ANALYTICAL BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principle , procedure , application of TLC , Gel Chromatography and Affinity Chromatography.
2	1	Principle , procedure and application of Ion Exchange , GLC and HPLC
3	1	Principle ,procedure and application of Column Chromatography and HPTLC
4	1	Principle, procedure and application of UHPLC and Software used to interpret Chromatogram .
5	2	General principles, Support media, Cellulose acetate electrophoresis . Electrophoresis of Protein, Native gels .
6	2	SDS- PAGE , Gradient gels , Isoelectric focusing , 2-D PAGE
7	2	Electrophoresis of nucleic acids, Agarose gel electrophoresis , DNA Sequence.

Cycle	Unit	Topics to be covered / Activity to be carried out
10	5	Measurements of radioactivity by GM counter .
11	5	Measurements of radioactivity by Solid Scintillation and Liquid Scintillation Counter .
12	5	Quench corrections , Scintillation Cocktails , and Sample Preparation .
13	5	Cerenkov counting , Autoradiography .
14	5	Applications of radioisotopes in Biology
15	5	Radiation hazards and Safety aspects
8	5	Types of Radio activity , Units of Radio activity .
9	5	Detection of radioactivity

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LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBC911S : ADVANCED BIOTECHNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Restriction and modification systems
2	1	Vectors-Plasmids, Phage Student's seminar
3	1	Students seminar completed for the first unit
4	1	Prokaryotic expression systems- features,promoters used,factors affecting expression,steps involved in protein expression
5	3	Gene therapy-In vivo and Ex vivo
6	3	Transgenic animals- Production and applications
7	3	In vitro fertilization and embryo transfer

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Biogas
9	5	Biofertiiser
10	5	Bioremediation of Hydrocarbons
11	5	Bioremediation of Pesticides
12	5	Students Seminar
13	5	Students Seminar
14	5	Students Seminar
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MARIE AROCKIANATHAN P Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBCP303 : CLINICAL BIOCHEMISTRY & IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of glucose and urea
2	2	Estimation of protein and cholesterol
3	3	Estimation of phosholipid
4	4	SGOT Assay
5	5	SGPT Assay
6	6	ALP Assay
7	7	Acid phosphatase assay

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	HDL and LDL
9	9	Urine Analysis
10	10	Urine analysis
11	11	RBC and WBC count
12	12	Estimation of hemoglobin and ESR
13	13	Estimation of creatinine
14	14	Agarose electrophoresis
15	15	Model test

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LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBC909S : ADVANCED CLINICAL BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Role of tissues and hormones in the maintenance of blood sugar. Diabetes mellitus – classification,.
2	1	stages of diabetes-metabolic abnormalities complications -acute complications – diabetic ketoacidosis –hyper osmolar non-ketotic coma
3	1	Long-term complications – diabetic retinopathy, Neuropathy and Nephropathy, Cataract diagnosis-GTT- role of HbA1C-Hypoglycemia and Hyperglycemia.
4	2	Heme metabolism -Jaundice- classification, biochemical findings
5	2	Liver function tests based on bile pigments, plasma changes, SGOT, SGPT,plasma proteins- A: G ratio, Prothrombin time.
6	2	Detoxification function: Hippuric acid excretion, BSP dyes test and metabolic functions -Galactose tolerance test,
7	2	Gall stones.Gastric Function Tests: Physical examination of gastric contents-basal and maximal secretion

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Stimulation tests – histamine,alcohol and Pentagastrin-FTM analysis-Azure A test
9	2	Analysis of gastric contents, Disorders of gastric function-Peptic ulcer, Gastritis and hypoacidity and hyper acidity.
10	5	ENDOCRINE DISORDER-Endocrine function test-Introduction
11	5	Thyroid function test--Radioactive Iodine uptake, serum PBI
12	5	Thyroid function test-Dynamic function test- T3 suppression test
13	5	TSH &TRH stimulation Test, ACTH stimulation Test,
14	5	dexamethasone suppression test, Metyrapone test,
15	5	GnRH Stimulation test. revision for all the units

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**PBC1013S : MOLECULAR PHYSIOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Digestion-Digestive system of man. Digestive processes at various regions of digestive system.
2	1	Salivary gland: composition, functions, and regulation of saliva. Gastric gland: composition, functions, and regulation of gastric juice, Mechanism of HCL secretion.
3	1	Composition and functions of pancreas,intestinal juice,bile secretion. Digestion and absorption of carbohydrates,lipids,proteins,nucleic acids.
4	2	Cardiac system – physiologic anatomy of heart- genesis, and spread of cardiac impulses-coronary cycle, cardiac cycle, heart sound, cardiac output, cardiovascular regulatory mechanisms, E.C.G-Measurement Of ECG.
5	3	Composition of the blood, blood coagulation – mechanism and regulation, fibrinolysis, anticoagulants. Respiratory system – functional anatomy of air, passages and lung respiratory muscles, mechanism of respiration, pulmonary ventilation, alveolar s...
6	3	Gas-exchange in the lungs&Blood regulation of respiration.Role of 2,3-diphosphoglycerate, Bohr's effect, and chloride shift, oxygen toxicity& therapy, artificial respiration.
7	4	renal system-structure of kidney and nephron-glomerular filtration, tubular reabsorption-glucose, water, and electrolytes.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Tubular secretion-mechanism of urine formation-homeostatic regulation, countercurrent mechanisms balance. regulation of acid-base balance.role of renin-angiotensin and ADH, renal failure.
9	5	Muscles - types of muscle-skeletal and smooth muscle-mechanism of muscle contractions.
10	5	Nervous system-structure of neuron and synapse-basic functions of synapses & neurotransmitters.Mechanism of transmission of impulse -synaptic transmission.
11	5	Mechanism of transmission of impulse -synaptic transmission.
12	5	neuromusculartransmission&junction.Central nervous system-Cerebrospinal fluid
13	5	EEG, sleep, learning & memory.
14	1	Revision for unit 1,2,3
15	4	Revision for unit 4 and 5

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**LEEMA ROSE MARY D**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**EPB1015A : PHARMACOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	DRUG THERAPY-I Mechanism of action of drugs used in therapy of respiratory system-Cough- eg-chlorpheniramine, Diphenhydramine.
2	4	DRUG THERAPY-I bronchial-asthma-eg., salbutamol, methylxanthines,
3	4	pulmonary tuberculosis
4	4	General principles& mechanism involved in the chemotherapy of cancer-(antimetabolites
5	4	General principles& mechanism involved in the chemotherapy of cancer-alkylating agents, antibiotics
6	4	Anti-thyroid drugs eg. carbimazole, insulin
7	4	oral Antidiabetic drugs eg-sulfonylurea, biguanide.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Anti-BP drugs (adrenergic blockers)
9	3	Drug receptor- localization, types and subtypes
10	3	Drug receptor-models and theories
11	3	Drug-receptor interactions-G-protein coupled receptor
12	3	Drug-receptor interactions-Acetylcholine receptor, Tyrosine kinase receptor
13	3	Drug-receptor interactions-steroid hormone receptor.
14	3	Agonist and Antagonist.
15	3	REVISION FOR UNIT 3

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBC910S : IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Type of immunity , phagocytosis
2	1	Types of immune cells , development of lymphocytes
3	1	Structure and function of primary and secondary lymphoid organs. B cell and t cell activation
4	3	Complement components and major histocompatibility complex immunology tolerance
5	3	Immunological memory, immunotolerance, immunosuppressipn
6	3	Transplantation ,graft rejection kidney transplantation
7	3	Transplantation acute and chronic rejection

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Type of hypersensitive. Type 1
9	4	Type 2 hypersensitive
10	4	Type 3 hypersensitive
11	4	Type 4 hypersensitive
12	4	Autoimmune disease classification
13	4	Gravis disease and hashimoto disease
14	4	Systemic lupus erythematous and rheumatoid arthritis
15	4	Treatment of autoimmune disease

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBCP303 : CLINICAL BIOCHEMISTRY & IMMUNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Estimation of glucose and urea
2	2	Estimation of protein and cholesterol
3	3	Estimation of phospholipids
4	4	Assay of Sgpt
5	5	Assay of shot
6	6	Assay of ALp
7	7	Assay of acid phosphatase and LDL and HDL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Estimation of gsh peroxidase and vitamin a
9	9	Estimation of vitamin e and c
10	10	Estimation of sod and catalase
11	11	Urine analysis normal and abnormal constituents and blood grouping , clotting time
12	12	Bleeding time , esr ,
13	13	RBC and WBC count
14	14	Hb estimation and immunoelectrophoresis
15	15	Separation of DNA by submarine electrophoresis

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**JPBC1016 : PROJECT**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Discussion with students
2	2	Selection of Topic
3	3	Literature Collection
4	4	Collection of Samples
5	5	Sample preparation and Treatment
6	6	Extraction of Protein
8	8	Extraction of protein

Cycle	Unit	Topics to be covered / Activity to be carried out
9	9	Extraction protein
10	10	Analysis of protein by different methods
7	7	Extraction of protein
11	11	Purity by SDS- PAGE
12	12	Biochemical analysis
13	13	Analysis of Protein degradation of microorganisms
14	14	Preparation of Manuscript
15	15	Preparation of Manuscript

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**PBC1014S : RESEARCH METHODOLOGY AND BIOSTATISTICS**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Collection and Classification of data . Diagrammatic and graphical representation of data .
2	4	Tabulation of statistical data , Frequency Distribution - Simple and Cumulative
3	4	Displaying data- Histogram , Bar chart , Frequency Polygon , Pie chart . Less than Ogives and more than Ogives .
4	4	Measures of Central Tendency- Hormonic and Geometric . Mean for Ungrouped data .
5	4	Mean for Discrete distribution and Continous Distribution .
6	4	Median for Ungrouped data Discrete distribution and Continous distribution .
7	4	Mode for ungrouped data ,Diserete distribution and Continous distribution

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Research definition, Importance and need for research ethics .
9	1	Selection of Topic ,Review of literature and Preparation of Manuscript.
10	1	Scientific Writing , Features of Abstract .
11	1	Mode of Collection of Literature .
12	1	Year books , Monograph , Journal , Conference Proceedings .
13	1	Abstracting and Indexing Journal .
14	1	Notes and index cards , Internet and Magazines
15	1	Research design

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**LAWRENCE A**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**EPB1015A : PHARMACOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Classification of Drugs based on their sources . Dosage- single and multiple .
2	1	Routes of administration and absorption .
3	1	Factors modifying drug absorption .
4	1	Distribution of drug and Pharmacological activity .
5	1	Metabolism of drug- Phase I reaction .
6	1	Action of Cytochrome P450 . Microsomal and non microsomal metabolism of drug.
7	1	Oxidation , Reduction , and Drug metabolising enzymes .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Antimalarial drugs- Quinine and Chloroquine .
9	5	Antifungal drugs- mode of action of Chlorphenesion .
10	5	Antifungal-drugs mode of action of Griseofulvin and Candicidin .
11	5	Antiviral drugs - mode of action of idoxuridine .
12	5	Antiviral drugs - mode of action of Acyclovir .
13	5	Antiviral drugs - mode of action of amantadine .
14	5	Antimicrobial drugs- Sulfonamides and trimethoprim .
15	5	Antimicrobial drugs - penicillin and aminoglycosides

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**ANITHA R**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBC911S : ADVANCED BIOTECHNOLOGY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction to plant tissue culture,types of culture,cell culture and callus culture
2	2	Suspension culture,micropropagation, organogenesis, somatic hybridization and applications
3	2	Protoplast -isolation, regeneration, culture and also applications
4	2	Germplasm storage and it's applications and also cryopreservation
5	2	Somoclonal variations and it's applications
6	2	Cybrid, hybrid , culture media and secondary metabolites
7	3	Vaccines, types of vaccines, subunits vaccines,attentuated vaccines and recombinant vaccines

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Gene manipulation in disease and pest resistance
9	4	Bioprocess-Basic principles of microbial growth
10	4	Fermenter-different types and design
11	4	Operation of fermenter
12	4	Fermentation culture medium-carbon , nitrogen and vitamin sources
13	4	Production of vitamin B12 and penicillin
14	4	Downstream processing-separation, concentration, purification and modifications
15	5	Sewage treatment

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LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**3**
Subject	**PBC909S : ADVANCED CLINICAL BIOCHEMISTRY**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction about organ function test, renal function test clearance test
2	3	Urea clearance test, creatinine clearance test, inulin test, psp dye test
3	3	Importance of NPN, glomerulonephritis and its biochemical findings.
4	3	Nephrotic syndrome and its biochemical findings.
5	3	Renal failure - types, cause, symptoms and treatment
6	3	Renal stones - types, signs and symptoms and treatment
7	4	Introduction about inborn errors albinism

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Maple syrup urine disease, tyrosinosis
9	4	Introduction about glycogen storage disease and its types.
10	4	Lipid storage diseases
11	4	Hyperlipidemia and hypolipidemia
12	4	Introduction about isoenzymes and its types
13	4	Enzymes involved in liver disease.
14	4	Enzymes involved in myocardial infarction
15	4	Enzymes involved in pancreariti s.

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LESSON PLAN

Name of the Staff	**SILVAN S Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**PBC1014S : RESEARCH METHODOLOGY AND BIOSTATISTICS**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Animal experimentation .CPCSEA guidelines - Animal care and technical personnel environment,
2	3	Animal husbandry, feed, bedding, water, sanitation and cleanliness, waste disposal,
3	3	animal husbandry, feed, bedding, water, sanitation and cleanliness, waste disposal,
4	3	anesthesia and euthanasia.Ethics in food and drug safety. Patenting - definition of patent. Product and process patents.Patenting
5	2	FPLC, HPTLC, Capillary electrophoresis, paper electrophoresis, Mass spectrometry
6	2	Circular dichroism - DNA sequencing, FISH - RFLP
7	2	RAPD -techniques & application PCR Technique- Basic principle, RT-PCR,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Quantitative PCR &in Situ PCR. Diagnostic & laboratory application of PCR
9	5	Measures of Central tendency.Means (arithmetic, harmonic & geometric)
10	5	median and mode. Measure of Averages – Mean Median and mode.
11	5	Measures of Dispersion for biological characters – Quartile Deviation,
12	5	Mean Deviation and Standard deviation. Correlation & regression Co-efficient, levels of significance, S
13	5	tudent t test, .Chi square. F test for equality of variances,
14	5	Six sigma and Minitab,
15	5	ANOVA –one way and two way classification

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LESSON PLAN

Name of the Staff	**RAMAKRISHNAN R Dr.**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**JPBC1016 : PROJECT**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	General introduction regarding students project and research article collection
2	2	Research topic selection
3	3	Materials collection
4	4	Chemicals/ Reagents preparation
5	5	Preparation/ Synthesis
6	5	Preparation/ Synthesis
7	5	Preparation/ Synthesis

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	Quality analysis
9	6	Quality analysis
10	6	Quality analysis
11	7	Thesis writing
12	7	Thesis writing
13	7	Thesis writing
14	8	Research Project thesis submission
15	9	Viva voce

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Bio Chemistry**	Semester	**4**
Subject	**JPBC1016 : PROJECT**	Course	**Bio Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	REVIEW OF THE PLANT SOURCE AND PLAN OF THE STUDY
2	4	PROJECT PPT PRESENTATION
3	4	Preparation of Plant Extraction
4	4	Extraction of plant using solvents
5	4	Phytochemical assays of crude ethanolic extracts
6	4	Phytochemical assays of crude ethyl acetate extracts
7	4	Antioxidant profile of DPPH

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Antioxidant profile of NITRIC OXIDE
9	4	Antioxidant profile of HYDROGEN PEROXIDE
10	4	Estimation of protein in aqueous extract
11	4	Introduction correction
12	4	Introduction correction
13	4	Materials and Methods correction
14	4	Review of literature correction
15	4	Review of literature correction

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LESSON PLAN

Name of the Staff	**PERIYANAYAGASAMY V Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**PCH13B : QUANTUM MECHANICS AND MOLECULAR STRUCTURE**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Elements of Classical mechanics
2	1	Wave equation for electrons
3	1	Schrodinger equatio
4	2	2.1 The harmonic Oscillator
5	2	Solution of the Schrodinger equation
6	2	The origin of quantum numbers (angular momentum and spin)
7	3	approximation methods

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Born Oppenheimer approximation
9	3	concept of hybridization
10	4	The simple Huckel method
11	4	Extended Huckel method – overlap – population analysis
12	4	FMO theory
13	5	Basics of Popular quantum chemical calculations:
14	5	Hamiltonian and wave functions – Roothan's equations.
15	5	Semi-empirical methods

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LESSON PLAN

Name of the Staff	**PERIYANAYAGASAMY V Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**PCH807T : GROUP THEORY AND ITS APPLICATIONS IN SPECTROSCOPY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Symmetry elements and symmetry operations
2	1	group multiplication table – subgroups, similarity transformation,and classes
3	1	identifications of symmetry operations and determination of point groups. Reducible and irreducible representations – direct product representation.
4	2	Orthogonality theorem and its consequences – construction of character table for C2V and C3V – hybrid orbital in nonlinear molecules (CH1, XeF4, BF3, SF6,and NH3).
5	2	Determination of representations of vibrational modes in nonlinear molecules (H2O, CH4, BF3,and NH3).
6	2	Symmetry selection rules of infrared and Raman spectra – application of group theory for the electronic spectra of ethylene and formaldehyde.
7	3	Normal modes – Vibrational Analysis and Characterization of Stationary points – Electrical

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties - dipole moments, optical activity, polarizability.
9	3	Magnetic properties NMR chemical shifts, shielding, spin-spin coupling,and hyperfine interactions.
10	4	Interaction of matter with radiation – Einstein theory of transition Probability – Rotational spectroscopy of a rigid rotator
11	4	diatomic and polyatomic molecules. Vibrational spectroscopy – harmonic oscillator – anharmonicity – vibrational spectra of polyatomic molecules – vibrational frequencies – group frequencies – vibrational coupling overtones – Fermi resonan...
12	4	Electronic spectra of polyatomic molecules – group symmetry of molecules and selection rules – types of transition – solvent effects.
13	5	Resonance spectroscopy – Zeeman effect – the equation of motion of spin in magnetic fields – chemical shift – spin-spin coupling.
14	5	Calculation of coupling constants - 13C, 19F, 31P NMR spectra – applications – a brief discussion of Fourier transformation in resonance spectroscopy.
15	5	Splitting of spin energy level in the magnetic field – quantum mechanical treatment.

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LESSON PLAN

Name of the Staff	**PERIYANAYAGASAMY V Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19PCHP23 : PHYSICAL CHEMISTRY PRACTICAL-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PHYSICAL CHEMISTRY PRACTICALS INTRODUCTION
2	1	PHYSICAL CHEMISTRY PRACTICALS
3	1	PHYSICAL CHEMISTRY PRACTICALS
4	1	PHYSICAL CHEMISTRY PRACTICALS
5	1	PHYSICAL CHEMISTRY PRACTICALS
6	1	PHYSICAL CHEMISTRY PRACTICALS
7	1	PHYSICAL CHEMISTRY PRACTICALS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	PHYSICAL CHEMISTRY PRACTICALS
9	1	PHYSICAL CHEMISTRY PRACTICALS
10	1	PHYSICAL CHEMISTRY PRACTICALS
11	1	PHYSICAL CHEMISTRY PRACTICALS
12	1	PHYSICAL CHEMISTRY PRACTICALS
13	1	PHYSICAL CHEMISTRY PRACTICALS
14	1	PHYSICAL CHEMISTRY PRACTICALS
15	1	PHYSICAL CHEMISTRY PRACTICALS

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AMALORPAVADOSS A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**PCH11B : ORGANIC CHEMISTRY-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	0
2	3	0
3	3	UNIT – III REACTIVE INTERMEDIATES (12 hrs) Structure, reactivity, formation, stability,and reactions involving free radicals, benzynes, carbenes,and nitrenes.
4	3	Long and short-lived free radicals. Addition of free radicals to olefinic double bonds.
5	3	Aromatic radical substitutions: Decomposition of diazocompounds,
6	3	phenol – coupling, sandmeyerreaction, Gomberg reaction, Pschorr reaction, Ullmann reaction, Hunsdiecker reaction.
7	3	Problem Solving

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Introductory physical organic chemistry: Acids and Bases, HSAB,
9	2	the equilibrium constant, thermodynamic effect, kinetic effects – thermodynamic and kinetic control of organic reactions.
10	2	Hammond postulate, Curtin – Hammett principle. Hammett equation – Application to organic reactions. Methods of determining reaction mechanism –Non-kinetic methods.
11	2	Product analysis; Determination of the presence of intermediates-isolation, detection, trapping; cross-over experiments isotopic labeling and isotope effects;
12	2	stereochemical evidence. Kinetic methods - the relation of the rate with the mechanism of the reaction.
13	5	Mechanism – study of the following oxidation reactions– oxidation of alcohols with Cr(VI)and Mn reagents – oxidation of methylene to carbonyl, oxidation of aryl methanes – Etard reaction
14	5	Formation of C = C bonds- Wittig reaction, Formation of C – C bonds by dehydrogenation, dehydrogenation by Quinones, Hg(OAc)2 and Pb(OAc)4 . Formation of C – C bond by phenol coupling and acetylene coupling – allylic oxidation-SeO2,
15	5	oxidation of alcohol, glycols, halides and amines to aldehydes and ketones, oxidation of Olefinic double bonds and unsaturated carbonyl compounds – oxidative cleavage of C – C bond.

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LESSON PLAN

Name of the Staff	**AMALORPAVADOSS A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19PCH21 : ORGANIC CHEMISTRY-II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conformations of some simple 1,2 – disubstituted ethane derivatives. Conformational analysis of disubstituted cyclohexanes and their stereochemical features.
2	1	Conformation and reactivity of substituted cyclohexanol(oxidation and acylation), cyclohexanone. (reduction) and cyclohexane carboxylic derivatives (esterification and hydrolysis).
3	1	Conformations and Stability of - cis and trans Decalins -9 – methyl decalin.
4	2	Substitution at saturated reaction center (carbon). SN1, SN2,SNi mechanisms – Reactivity, structural and solvent effects.
5	2	Neighbouring group participation – substitution in Norbornyl and bridgehead systems – Substitution at carbon doubly bonded to oxygen. Alkylation and acylation of active methylene carbon compounds, hydrolysis of esters.
6	2	SE1, SE2, SEi mechanisms – reactivity. Hell-Volhard-Zelinsky reaction, Stork – enamine reaction. Decarboxylation of aliphatic acids.
7	3	Electrophilic, nucleophilic and free radical mechanisms of addition to carbon-carbon multiple bonds – isolated and conjugated multiple bonds. Hydration, hydroxylation, hydroboration. Stereochemical aspects to be studied wherever applicable.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Nucleophilic addition reactions of carbonyl compounds: Aldol, Perkin, Stobbe, Claisen, Dieckmann,Benzoin condensation. Mannich, Reformatsky, Grignard, Robinson Annulation and Shapiro reactions.
9	3	Elimination reactions: E1, E2,and E1CB mechanism. Hofmann and Saytzeff rules. Dehydration, dehydrohalogenation,and dehalogenation. Stereochemistry of E2 elimination in cyclohexane systems. Mechanism of pyrolytic eliminations. Chugaev and Cope eliminatio.
10	4	The arenium ion mechanism – Orientation and reactivity – typical reactions – nitration, halogenation, alkylation, acylation,and diazonium coupling.
11	4	Reimer- Tiemann, Vilsmeyer- Hack, Gattermann, Kolbe reactions. Synthesis of di- and trisubstituted benzenes.
12	4	Electrophilic substitution of furan, pyrrole, thiophene,and pyridine- N- oxide.
13	5	Methods for the generation of benzyne intermediate and reactions of aryne intermediate.
14	5	Nucleophilic substitution involving diazonium ions. Aromatic nucleophilic substitution of activated halided. Zeigler alkylation.
15	5	Chichibabin reaction. Problems.

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LESSON PLAN

Name of the Staff	**SEBASTIAN MARIANATHAN M**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**PCHP201 : ORGANIC CHEMISTRY PRACTICAL-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Explanation for analysis of Organic compounds
2	1	Demonstration class
3	1	Analysis of an Organic compound -1
4	1	Analysis of an Organic compound -2
5	1	Analysis of an Organic compound -3
6	1	Analysis of an Organic compound -4
7	1	Analysis of an Organic compound -5

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Analysis of an Organic compound -6
9	1	Analysis of an Organic compound -7
10	1	Analysis of an Organic compound -8
11	1	Analysis of an Organic compound -9
12	1	Preparation of Organic compound -1
13	1	Preparation of Organic compound -2
14	1	Preparation of Organic compound -3
15	1	Preparation of Organic compound-4

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19PCHP23 : PHYSICAL CHEMISTRY PRACTICAL-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction- Physical chemistry practical-I
2	1	Theory of practicals
3	1	Physical chemistry practical-Experiment-1
4	1	Physical chemistry practical-Experiment-2
5	1	Physical chemistry practical-Experiment-3
6	1	Physical chemistry practical-Experiment-4
7	1	Physical chemistry practical-Experiment-5

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Physical chemistry practical-Experiment-6
9	1	Physical chemistry practical-Experiment-7
10	1	Physical chemistry practical-Experiment-8
11	1	Physical chemistry practical-Experiment-9
12	1	Physical chemistry practical-Experiment-10
13	1	Viva preparation for Practicals
14	1	Viva preparation for Practicals
15	1	model practical examination

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**19PCHP13 : PHYSICAL CHEMISTRY PRACTICAL-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Demonstrations and Theory of Practicals
2	1	Physical chemistry practical-1
3	1	Physical chemistry practical-2
4	1	Physical chemistry practical-3
5	1	Physical chemistry practical-4
6	1	Physical chemistry practical-5
7	1	Physical chemistry practical-6

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Physical chemistry practical-7
9	1	Physical chemistry practical-8
10	1	Physical chemistry practical-9
11	1	Physical chemistry practical-10
12	1	Principles behind practicals
13	1	Physical chemistry practical-11
14	1	Physical chemistry practical-12
15	1	Physical chemistry practical-13

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**19PCH12 : INORGANIC CHEMISTRY-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Determination of stability constants
2	3	Determination of stability constants by polarographic method
3	3	Determination of stability constants by spectrophotometric method
4	3	Determination of stability constants by Jobs method
5	4	Metal clusters _ classification of boranes as closo Nido arachno hypo 1
6	4	Metal clusters _ classification of boranes as closo Nido arachno hypo 2
7	4	Metal clusters _ classification of boranes as closo Nido arachno hypo 3 and Styx codes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Two atom metal clusters with carbonyls
9	4	Three center metal clusters with coordination complexes
10	4	Metal clusters with more than 3 atoms
11	5	Poly acids and heteropoly acids _1
12	5	Polyacids and heteropoly acids _2
13	5	Classification of silicates
14	5	Concept of poly nitrogen sulphur compounds
15	5	Polyorgano phosphazenes and cyclophosphazenes

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LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**EPCH704T : BIO-INORGANIC AND SUPRAMOLECULAR CHEMISTRY (OR)**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	ferritin and its significances
2	1	Transferrin - transfer protein
3	1	Biomineralisation and siderophores
4	1	calcium in biology
5	1	Intracellular and extracellular proteins
6	1	calmodulin and clotting of blood
7	2	zinc enzymes - Carboxypeptidase & superoxide dismutase

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	carbonic anhydrase & cytochromep- 450
9	2	catalase & Peroxidase
10	2	Xanthine oxidase- molybdenum enzymes
11	2	vitamin B12
12	3	Trace elements and essential elements
13	3	Nucleic acids and their interaction with metals
14	3	cisplatins and their importances
15	3	cisplatins as the drugs for cancer

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19PCH22 : INORGANIC CHEMISTRY-II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	electronic spectra of transition metal complexes
2	2	spectroscopic ground states - determination
3	2	Orgel diagrams for d1,d2,d3,d4,d6,d7,d8,d9 systems
4	2	Sugano Tanabe diagram for d5 system
5	2	Nephelauxtic effect - calculation of various parameters
6	2	charge transfer spectra - comparison of CT and d-d spectra
7	4	bioinorganic chemistry - essential and trace elements

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	sodium pump - role of metal ions in biological process
9	4	storage of Dioxygen - Haemoglobin and myoglobin
10	4	electron transfer in bioloy - cytochromes
11	4	electron transfer in bioloy - iron sulphur protiens - nitrogen fixation
12	5	stellar energy - synthesis of elements - hydrogen burning - carbon burning
13	5	nuclear reactors - fast breeder reactors - particle accelerators
14	5	linear accelerators - cyclotron - synchrotron
15	5	radioanalytical methods - radiometric titrations - RIA - NAA

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LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**PCH11B : ORGANIC CHEMISTRY-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Reviewof basic principles of stereochemistry – Interconversion of Sawhorse, Newman,and Fischer projections.
2	1	R, S notation of biphenyls, allenes,molecules with one and two asymmetric centers. Erythro and threo notations.
3	1	Asymmetric synthesis. Geometrical isomerism, E, Z - nomenclature of olefins,
4	1	Geometrical and optical isomerism of disubstituted cyclopropane, cyclobutane,andcyclopentane.
5	1	Cram's rule. Felkin- Ahn Modification.Stereospecific andstereoselective reactions.
6	1	.Stereospecific andstereoselective reactions.
7	5	Synthetic importance of Clemmensen and wolf Kishner reductions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	modification of Wolf-Kishner reduction – Birch reduction, MPV reduction. Catalytic hydrogenation and Sommelet reaction.
9	5	Reduction with LiAlH4, NaBH4, tritertiarybutoxyaluminium hydride, Sodium cyanoborohydride,and trialkyl tin hydride.
10	4	Structure, reactivity, formation, stability and the following rearrangements involving carbocations and carbanions:
11	4	Wagner – Meerwein, Pinacol – Pinacolone,
12	4	Tiffeneau- Demjanov, Beckmann, Dienone – phenol,
13	4	Favorski, Wittig, Neber, Stevens
14	4	Sommelet- Houser rearrangements. Hofmann,
15	4	Curtius, Lossen, Schmidt and Wolff Rearrangements.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19EPCH24 : REAGENTS AND NAMING REACTIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Recognition of chiral structures – R & S, E & Z nomenclature, (including allene,biphenyl& spiranes)
2	1	diastereoisomerism in acyclic systems.
3	1	Conformational analysis of simple cyclic and acyclic systems & their effect on the reaction.
4	1	Interconversion of Fischer, Newman,and Sawhorse projections.
5	1	Asymmetric synthesis - newer methods.
6	1	Enantiotopic and diastereotopic ligands and faces.
7	3	Favorskii, Stork – enamine, Mannich,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Michael, Baeyer – Villiger, Shapiro, Hoffmann – Loffler – Freytag reactions. Routine functional group transformations.
9	3	Oppenaur Oxidation, Meerwein - Ponndorf – Verley, Simmons – Smith reaction.
10	5	Green Chemistry – Genesis and concept of Green Chemistry
11	5	Principles, Strategies
12	5	Alternative Techniques in Organic Synthesis
13	5	Use of microwave, ultrasound
14	5	ionic liquids, super-critical solvents in organic synthesis
15	5	Multi-component reactions

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**19PCH12 : INORGANIC CHEMISTRY-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Isomerism in complexes-ionization isomerism, hydrate isomerism,
2	1	linkage isomerism, ligand isomerism,
3	1	Coordination isomerism and polymerization isomerism
4	1	Numerical problems on isomerism of the complexes
5	1	Geometrical and optical isomerism in 4 and 6 coordinated complexes.
6	1	Chirality and nomenclature of chiral complexes.1
7	3	Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interaction, trends in stepwise constants,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand, chelate effect and its thermodynamic origin.
9	5	Polyacids: Isopolyacids and heteropolyacids of vanadium,
10	5	Polyacids: Isopolyacids and heteropolyacids of chromium, molybdenum, and Tungsten.
11	5	Polyacids: Isopolyacids and heteropolyacids of molybdenum, and Tungsten.
12	5	Polyacids: Isopolyacids and heteropolyacids of Tungsten.
13	5	Inorganic Polymers: Silicates – structure, properties and applications –
14	5	Inorganic Polymers: Silicates – structure, properties and applications – poly sulphur – nitrogen compounds
15	5	Inorganic Polymers: Silicates – structure, properties and applications poly-organophosphazenes.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**1**
Subject	**EPCH704T : BIO-INORGANIC AND SUPRAMOLECULAR CHEMISTRY (OR)**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Concepts, Nature of Supramolecular interactions,
2	4	preorganization and complementarity-design principles.
3	4	Molecular recognition: - Spherical and tetrahedral recognition
4	4	Molecular recognition: - Recognition of ammonium ions, neutral molecules.
5	4	Molecular receptors – Cation binding hosts-Crown ethers, Cryptands, Calixarenes - design principles -
6	4	Anion receptors – the shape of anions - Recognition of anionic substrate.
7	4	Co-receptor molecules - dinuclear and polynuclear metal ion cryptates - ditopic

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	, heterotopic co-receptors - multiple recognition in metalloreceptors
9	5	Supramolecular devices: Light Conversion and Energy Transfer Devices,
10	5	Supramolecular devices: Light Conversion and Energy Transfer Devices,
11	5	Supramolecular devices: Photoinduced Electron Transfer Devices
12	5	Supramolecular devices: Photoinduced Electron Transfer Devices
13	5	Molecular wires, switchable molecular wires, photoswitching devices.
14	5	Supramolecular racks, ladders, grids.
15	5	Supramolecular chemistry in biology.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19PCH22 : INORGANIC CHEMISTRY-II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1 Metal-Ligand Bonding: Limitation of crystal field theory, Molecular Orbital Theory, Evidence of metal-ligand covalency, TASO-MO concepts of Oh and Td complexes
2	1	1.1 MO energy level diagrams of sigma- and pi-bonding in Oh complexes, nature of metal-ligand pi-bonds
3	1	1.1 evidence for pi-back bonding, spectrochemical series, and pi-acceptor series. Jahn-Teller Effect and its consequences.
4	1	1.2 The Chemistry of Lanthanides and Actinides: oxidation state, spectral & magnetic characteristics
5	1	1.2 coordination numbers, stereochemistry, lanthanide contraction-causes, consequences - comparison between 3d and 4f block elements
6	1	1.2 comparative account of lanthanides and actinides - nuclear and non-nuclear applications.
7	3	3.1 Nanotechnology – Introduction – preparatory methods – chemicals methods, thermolysis, and pulsed laser method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	3.1 Microwave Synthesis -Basic concepts of Nanoscience and technology
9	3	3.1 Quantum wire – Quantum well – Quantum dot – Properties and technological advantages of Nanomaterials
10	3	3.1 Carbon Nanotubes and applications – Principles of SEM, TEM and AFM.
11	3	3.2 Biomedical applications of nanotechnology.
13	5	5.2 Stellar Energy: Synthesis of elements - hydrogen burning, carbon burning, the e, x, r, p and x processes.
14	5	5.2. Nuclear Reactors: fast breeder reactors, particle accelerators, linear accelerators, cyclotron, and synchrotron.
15	5	5.2 Radio Analytical Methods: Isotope dilution analysis, Radiometric Titrations, Radioimmunoassay, Neutron activation analysis.
12	3	3.2 Biomedical applications of nanotechnology.

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LESSON PLAN

Name of the Staff	**IMMANUEL S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**PCHP202S : INORGANIC CHEMISTRY PRACTICAL-I**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	LEAD
2	2	SULPHAE
3	3	CHLORINE
4	4	NITRATE
5	5	MANGANESE
6	6	ALUMINIUM
7	7	COPPER

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	SULPHIDE
9	9	CHLORIDE
10	10	CALCIUM
11	11	MOLIBDINUM
12	12	ZINC
13	13	TUNGSTEN
14	14	ALIUMINIUM
15	15	SULPHATE

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LESSON PLAN

Name of the Staff	**ALBERT NIKSON S**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**2**
Subject	**19EPCH24 : REAGENTS AND NAMING REACTIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Methods of determining reaction mechanism – reactive intermediates
2	2	carbocations-formation ,structure,properties and stability
3	2	carbanions-formation ,structure,properties and stability
4	2	carbenes, nitrenes, arynes,and free radicals
5	2	Nucleophilic and electrophilic substitutions and additions to multiple bonds. Elimination Reactions. Kinetic isotope effects
6	2	Hammett equation – Neighbouring group participation
7	3	Palladium-catalyzed Coupling Reactions: Heck Reactions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Palladium-catalyzed Coupling Reactions:Suzuki, Stille, Sonogashira, Kumuda
9	3	Palladium-catalyzed Coupling Reactions:Buchwald- Hartwig, Negishi,and Himaya
10	4	Uses of complex metal hydrides, Gilman’s reagent
11	4	LDA, DCC, 1,3-dithiane, trimethylsilyl iodide, tri-n-butyl tin hydride, osmium tetroxide
12	4	SeO2, DDQ, Peterson’s synthesis, Wilkinson’s catalyst, Baker’s yeast, Merrifield resin.
13	4	Alpha cleavage given by cyclobutanones - beta cleavage reactions, the formation of photoenols and photoenolization
14	4	intermolecular hydrogen transfer &intermolecular photo reduction - Photo rearrangements
15	4	photo rearrangements of beta-gamma unsaturated ketones, 1,2 acyl shift - 1,3 acyl shift, aza di-pi methane rearrangement

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PERIYANAYAGASAMY V Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**PCH1015T : REACTION KINETICS,ELECTRODE KINETICS,AND PHOTOCHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. Mean ionic activity and mean ionic activity coefficient – concept of ionic strength,
2	1	Debye- Huckel theory of strong electrolytes – activity coefficient of strong electrolytes – determination of activity coefficient by electrical method
3	1	– Debye – Huckel limiting law qualitative and quantitative verification – limitation of Debye Huckel limiting law at appreciable concentrations of electrolytes – Huckel equation – Debye – Huckel – Bronsted equation.
4	1	2. Electrode – electrolyte interface – adsorption at the electrified interface – electrified double layer – electro capillary phenomenon
5	1	Lipmann equation – the structure of double layers – Helmholtz
6	1	Onsager's theorem diffusion – electrokinetic phenomena – membrane potential.
7	2	1. Absorption and emission of radiation – Franck – Condon Principle

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	decay of electronically excited states – Jablonski diagram – radiative and nonradiative processes
9	2	fluorescence and phosphorescence – spin forbidden radiative transition – internal conversion and intersystem crossing – energy transfer process.
10	2	2. Kinetics of unimolecular and bimolecular photophysical processes – excimers and exciplexes – static and dynamic quenching – Stern Volmer analysis.
11	2	2. Kinetics of unimolecular and bimolecular photophysical processes
12	2	excimers and exciplexes – static and dynamic quenching – Stern Volmer analysis.
13	3	2. Kinetics of photochemical reactions:
14	3	hydrogen and halogen reactions, photoredox, photo substitution,
15	3	photoisomerization and photosensitized reactions

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**AMALORPAVADOSS A**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**PCH909S : ORGANIC CHEMISTRY-III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Unit – I PERICYCLIC REACTIONS Molecular orbital symmetry, Frontier orbitals of ethylene, 1, 3 – butadiene, 1,3,5 – hexatriene and allyl system.
2	1	Classification. Electrocyclic reactions – cycloadditions and cheletropic reactions. Sigmatropic rearrangements –
3	1	Woodward – Hoffmann rules and correlation diagrams.Claisen and Cope rearrangements. Fluxional tautomerism,
4	1	Ene reaction, Applications of concerted reactions in organic synthesis.
5	2	Unit – II ORGANIC PHOTOCHEMISTRY Introduction to organic photochemistry, Photochemical excitations, Fate of the excited molecules, Jablonski diagram,
6	2	Study of photochemical reactions of alkenes, dienes, aromatic, carbonyl and conjugated systems,
7	2	Norrish Type-I and reactions, Paterno- Buchi reaction, Di-pi-methane rearrangement, Applications of photochemical reactions in Organic Synthesis.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Unit III AROMATICITY Aromaticity of benzenoid, heterocyclic and non benzenoid compounds, Huckel's rule –
9	3	Aromatic systems with pi electron numbers other than six – non aromatic (cyclooctatetraene etc,) and antiaromatic system (cyclobutadiene etc.)
10	3	system with more than 10 pi electrons – Annulenes up to C18
11	4	Unit – IV REAGENTS IN ORGANIC SYNTHESIS Applications of the following reagents in organic synthesis:AIBN, 9-BBN, DCC, CAN,PCC, Crown ethers, LDA, Lindlar's catalyst, Gilman's reagent, 1,3-Dithiane-Umpolung, Trimethylsilyl iodide, Phase tra...
12	4	Wilkinson's catalyst, Baker yeast, Organo transition metal reagents. Applications of reagents containing silicon, Phosphorus, Sulphur, selenium, palladium, rhodium, and titanium reagents in organic synthesis.
13	5	Unit - V SELECTIVE NAME REACTIONS AND THEIR APPLICATIONS IN ORGANIC SYNTHESIS Michael addition, Mannich reaction,Sharpless asymmetric epoxidation, Hofmann – Loffler – Freytag reaction,
14	5	Knoevenagel reaction, Peterson Olefination reaction, Skraup reaction, Barton reaction, Reformatsky reaction,Von Richter reaction,
15	5	Prevost reaction and Woodward modification of the Prevost reaction.

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**PCH911S : STATISTICAL THERMODYNAMICS AND ITS APPLICATIONS**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	TERMINOLOGIES OF THERMODYNAMICS
2	4	SOME PARTIAL MOLAR PROPERTIES- INTRODUCTION
3	4	Partial molar heat content – Their significance and determination of these quantities -
4	4	Variation of chemical potential with temperature and pressure.
5	4	Thermodynamics of real gases – gas mixture – definition of fugacity – calculations
6	4	determination of fugacity – variation of fugacity with temperature and pressure activity
7	5	activity- thermodynamics - ideal and non ideal solutions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Excess function for non ideal solutions and their determination
9	5	the concept of activity and activity coefficients
10	5	determination of standard free energies- choice of standard states
11	5	determination of activity and activity coefficients- determination of activity and activity coefficients for electrolytes by EMF vapour pressure measurements
12	5	Gibbs Duhem equation and solubility product method. Thermodynamic equilibrium – Three component system.
13	3	.Ensemble- introduction, types
14	3	Canonical Ensemble- explanation and comparison
15	3	grand canonical and micro canonical ensemble.

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**PCHP306 : PHYSICAL CHEMISTRY PRACTICAL - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	introduction and Demo class
2	1	introduction and Demo class
3	1	Physical chemistry practical-II- Experiment-1
4	1	Physical chemistry practical-II- Experiment-2
5	1	Physical chemistry practical-II- Experiment-3
6	1	Physical chemistry practical-II- Experiment-4
7	1	Physical chemistry practical-II- Experiment-5

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Physical chemistry practical-II- Experiment-6
9	1	Physical chemistry practical-II- Experiment-7
10	1	Physical chemistry practical-II- Experiment-8
11	1	Physical chemistry practical-II- Experiment-9
12	1	Physical chemistry practical-II- Experiment-10
13	1	Physical chemistry practical-II- Experiment-11
14	1	Physical chemistry practical-II- Experiment-12
15	1	Model practical examination

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**PCH1015T : REACTION KINETICS,ELECTRODE KINETICS,AND PHOTOCHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Absorption and emission of radiation – Franck – Condon Principle. decay of electronically excited states
2	4	Jablonski diagram – radiative and nonradiative processes – fluorescence and phosphorescence. spin forbidden radiative transition – internal conversion and intersystem crossing
3	4	energy transfer process. Kinetics of unimolecular and bimolecular photophysical processes – excimers and exciplexes – static and dynamic quenching – Stern Volmer analysis
4	5	Experimental methods – quantum yield and lifetime measurements – steady state principle – quantum yield and chemical actinometry. Kinetics of photochemical hydrogen and halogen reactions
5	5	photoredox, photo substitution, photoisomerization,and photosensitized reactions – photovoltaic and photogalvanic cells, photo-assisted electrolysis of water, aspects of solar energy conversion.
6	5	Radiation chemistry – Interaction of high energy radiation with matter – primary and secondary processes – G value – radiolysis of water – hydrated electron.
7	3	The structure of double layers – Helmholtz – Perrin, Guoy – Chapman and Stern model of electrical double layers. Butler-Volmer and Tafel equation- applications in electrode reactions, overvoltage,and corrosion.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Irreversible thermodynamics – forces and fluxes – linear force – flux relation – phenomenological equations – Onsager's theorem diffusion – electrokinetic phenomena – membrane potential.
9	6	Project work
10	6	Project work
11	6	Project work
12	6	Project work
13	6	Project work
14	6	Project work
15	6	Project work

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LESSON PLAN

Name of the Staff	**ANTONY SANDOSH T**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**JPCH1016 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction - Project work
2	1	Literature review
3	1	Literature review
4	1	project Synthetic work
5	1	project Synthetic work
6	1	Characterization
7	1	Characterization

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Characterization
9	1	Report preparation
10	1	Report preparation
11	1	Report preparation
12	1	Report correction
13	1	Report correction
14	1	Thesis submission
15	1	model presentation

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**PCH910S : INORGANIC CHEMISTRY –III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Organometallic Chemistry: Carbon s donors: Alkyls and aryls - metalation reactions - Bonding in carbonyls and nitrosyls
2	1	Metal carbene and carbyne complexes
3	1	- Carbon p donors: olefins, acetylene and p-allyl systems - cyclic p donors - synthesis structure and bonding in Metallocenes
4	1	Organometallic Reaction: Association, substitution, addition and elimination, ligand protonation
5	1	electrophilic and nucleophilic attack on ligands.
6	1	Carbonylation and Decarbonylation, oxidative addition, reductive elimination and fluxionality.
7	2	Inorganic Spectroscopy: Applications to inorganic systems of the following : ultraviolet, visible, infra-red

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	organometallic and simple inorganic compounds with special reference to coordination sites, isomerism.
9	4	Esr spectroscopy - basic theory
10	4	EPR Spectra: Hyperfine splitting: hyperfine splitting in isotropic systems involving one nucleus and more than one nucleus,
11	4	hyperfine splitting caused by quadrupole nucleii. g value and the factors affecting g values
12	4	anisotropy in g-value, factors causing anisotropy.
13	4	EPR spectra of systems with more than one unpaired electrons: zero-field splitting, causes of ZFS, McConnel's equation, Krammer's theorem.
14	4	ESR of transition metal complexes of copper, manganese and Vanadyl ions. ESR spectrum of simple organic free radicals.
15	4	Photo electron spectroscopy

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LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**PCH1014S : INORGANIC CHEMISTRY –IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	labile and inert complexes
2	1	SN1 reaction and their mechanism
3	1	SN2 reaction and its mechanism
4	1	SN1CB conjugate base mechanism
5	1	Anation reaction and its mechanism
6	1	synthesis of platinum and cobalt complexes
7	2	substitution reactions in square planar complexes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	trans effect and its theories - Fajon theory and Pi bond theory
9	2	reactivity of platinum complexes
10	2	influence of entering, leaving and other groups
11	2	inorganic photochemistry - photosubstitution and photoisomerization
12	3	electron transfer reactions - outer sphere mechanism reactions
13	3	inner sphere reaction mechanisms
14	3	successor complexes and Marcus theory
15	3	complementary, non complementary and two electron transfer reactions

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANAND G**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**JPCH1016 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	introduction about the research to the students
2	1	introduction about literature survey
3	1	process of literature survey
4	1	process of literature survey
5	1	presentation and conclusion of literature survey
6	1	ordering of chemicals
7	1	experimental

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	characterization
9	1	characterisation
10	1	discussion on results
11	1	writing of thesis
12	1	writing of thesis
13	1	writing of thesis
14	1	complete and final reading of thesis
15	1	submission

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**EPCH912S : PHYSICAL METHODS IN ORGANIC CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction, ion production – EI, CI, FD
2	3	FAB, factors affecting fragmentation, ion analysis, ion abundance.
3	3	Mass spectral fragmentation of organic compounds, of common functional groups,
4	3	molecular ion peak, base peak, and isotope peaks, metastable peak,
5	3	McLafferty rearrangement. Nitrogen rule. High-resolution mass spectrometry.
6	3	Examples of mass spectral fragmentation of organic compounds with respect to their structure determination.
7	2	Effect of hydrogen bonding and solvent on vibrational frequencies,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	overtones,combination bands,and Fermi resonance.
9	2	FT – IR. IR of gases,solids and polymeric materials.
10	5	13C NMR – proton decoupled
11	5	off-resonance spectra.
12	5	Factors affecting 13C chemical shift
13	5	electronegativity. 13C NMR spectra of simple organic molecules.
14	5	DEPT spectra. 2D NMR techniques1H COSY,
15	5	13 C COSY spectra.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RICHARD RAJKUMAR**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**PCH1013S : ORGANIC CHEMISTRY –IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Peptides and their synthesis
2	2	synthesis of tripeptide. Merrifield synthesis
3	2	End group analysis of peptides, Primary,Secondary and tertiary structure of proteins, Determination ofthe tertiarystructure of proteins.
4	2	End group analysis of peptides
5	2	Primary,Secondary and tertiary structure of proteins,
6	2	Determination ofthe tertiarystructure of proteins.
7	5	Imidazole, Oxazole, Thiazole, Flavones,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	isoflavones, anthocyanins
9	5	pyrimidines (cytosine and L uracil only) and purines (adenine, Guanine only).
10	5	Synthesis of parent and simple alkyl or aryl substituted derivatives are expected.
11	5	Synthesis of vitamin A1 (Reformat sky and Wittig reaction methods only).e.
12	5	Conversion of cholesterol to progesterone, estrone,and testosteron
13	3	Synthesis of simple organic molecules using standard reaction like acetylation,alkylation of enamines and active methylene compounds.
14	3	Grignard reactions, Phosphorus and sulphur ylides
15	3	Protection and deprotection of functional groups(R-OH, R-CHO, RCO-R , R-NH2 and R-COOH).

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LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**PCH910S : INORGANIC CHEMISTRY –III**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Organometallic Chemistry - Catalysis: Hydrogenation of olefins (Wilkinson's catalyst),
2	2	Hydroformylation of olefins using cobalt catalyst (oxo process),
3	2	Oxidation of olefins to aldehydes (Wacker process).
4	2	Polymerization of Olefins: Polymerization (Zeigler – Natta Catalyst);
5	2	cyclo oligomerization of acetylene using nickel catalyst (Repee's Catalyst)
6	2	cyclo oligomerization of acetylene using nickel catalyst (Repee's Catalyst); polymer- bound catalysts
7	3	Monsanto acetic acid synthesis, water gas shift reaction,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Fischer Tropsch synthesis – Olefin metathesis ROM & RCM
9	5	Inorganic Spectroscopy: 31P ,19F NMR spectrum of HPF2, P4S3, TiF4, BrF5, SIF62-, NF3, ClO4-, P4N4Cl4F2, ClF3 Phosphorous and Hypophosphorous acid systems - shift reagents.
10	5	Inorganic Spectroscopy: 31P, 19F, NMR spectrum of ClO4-, P4N4Cl4F2, ClF3 Phosphorous and Hypophosphorous acid systems - shift reagents.
11	5	NQR - Principles and applications of NQR
12	5	Mossbauer spectra – Principle, chemicals shift, Doppler shift - Mossbauer spectra of Fe and Sn systems.
13	5	Inorganic Spectroscopy: Applications to inorganic systems of the following: ultraviolet, visible, spectra of metal complexes, organometallic and simple inorganic compounds.
14	5	Inorganic Spectroscopy: Applications to inorganic systems of the following: infrared spectra of metal complexes, organometallic and simple inorganic compounds.
15	5	Inorganic Spectroscopy: Applications to inorganic systems of the following: Raman spectra of metal complexes, organometallic and simple inorganic compounds.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**PCH1014S : INORGANIC CHEMISTRY –IV**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	4.1Solid state reactions: General principles, coprecipitation as a precursor to solid-state reactions
2	4	4.1 the kinetics of solid-state reactions – types of the void
3	4	4.1 types of crystal structures – NaCl, Rutile, Wurtzite, Zincblende and CaF2
4	4	4.2 Crystal defects and nonstoichiometry: perfect and imperfect crystals
5	4	4.2 Intrinsic and extrinsic defects – point defects, line and plane defects
6	4	4.2 Schottky defects and Frenkel defects.
7	4	4.2. Thermodynamics of Schottky defects and Frenkel defect formation, colour centres, nonstoichiometry defect.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.1 Electronic Properties and Band Theory,
9	5	5.1 the band structure of metals, insulators, and semiconductors. ,
10	5	5.1 intrinsic and extrinsic semiconductors, doping semiconductors, superconductors – theories and applications
11	5	5.1 intrinsic and extrinsic semiconductors, doping semiconductors, superconductors – theories and applications
12	5	5.2 Optical properties- Optical reflectance, photoconduction-photoelectric effects
13	5	5.2 Magnetic properties- Classification of materials: para, dia, Ferro,Ferri, antiferromagnetism
14	5	5.2 Magnetic Susceptibility and measurements – Guoy method, Faraday method,
15	5	5.2 VSM, and their applications – magnetic domains, hysteresis.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PAUL AROKIADOSS**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**JPCH1016 : PROJECT**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Project
2	1	Introduction: Literature survey
3	1	Introduction: Literature survey
4	2	Scope of the project
5	2	Scope of the project
6	2	Scope of the project
7	3	Methodology

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Methodology
9	3	Methodology
10	4	Result and discussion
11	4	Result and discussion
12	4	Result and discussion
13	5	Conclusion and Bibliography
14	5	Conclusion and Bibliography
15	5	Conclusion and Bibliography

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LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**EPCH912S : PHYSICAL METHODS IN ORGANIC CHEMISTRY**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Ultraviolet – Visible spectroscopy – Various electronic transitions
2	1	Beer-Lambert law,effect of solvent on electronic transitions,
3	1	ultraviolet bands for carbonyl compounds, unsaturated carbonyl compounds, dienes, conjugated polyenes.
4	1	Woodward-Fieser rules for conjugated dienes and carbonyl compounds
5	1	Woodward-Fieser rules for ultraviolet spectra of aromatic and heterocyclic compounds.
6	1	Octant rule, Applications of ORD and CD to stereochemical assignments.
7	2	Infra red spectroscopy – Instrumentation and sample handling.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Vibrational frequencies of different functional groups.
9	2	Effect of hydrogen bonding and solvent on vibrational frequencies,
10	4	General introduction to NMR techniques – CW and FT NMR techniques, magnetic anisotropy
11	4	1 H NMR spectral parameters – chemical shift, coupling constant,
12	4	Factors affecting chemical shift,coupling constant.
13	4	Karplus eqution. Proton NMR spectra of simple organic molecules.
14	4	Simplification of complex spectra. Nuclear Overhauser effect (NOE).
15	4	Identification of Homotopic, diastereotopic and enentiotopic protons.

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LESSON PLAN

Name of the Staff	**DAVID AMALRAJ S Dr**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**JPCH1017 : SEMINAR&PAPER PRESENTATION**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Meaning of research – objective of research motivation of research – approaches and significance
2	1	research in scientific methods – research process – criteria for good research
3	2	Research problem: selecting the problem – necessity of defining the problem
4	2	techniques involved in defining the problem – research design – needs and features of good design
5	2	different research design – basic principles of experimental designs.
6	3	Select the topic - review of literature (key word) – materials and methods and discussion by using doi
7	3	Pick a good topic. Know your audience. Begin with a title slide and show a brief outline or list of topics to be covered. Introduce your topic well. Methodology.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data presentation is the heart of a successful talk. Always give a synthesis or conclusion. Answer questions thoroughly and thoughtfully.
9	4	Project work
10	4	Project work
11	4	Project work
12	5	Project work
13	5	Project work
14	5	How to write the thesis
15	5	Project work

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**3**
Subject	**PCHP304T : ORGANIC CHEMISTRY PRACTICAL - II**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to estimation and preparation
2	1	Demonstration class and interactions
3	1	Estimation of Phenol
4	1	Estimation of Aniline
5	1	preparation of Organic compounds I
6	1	preparation of Organic compounds I
7	1	preparation of Organic compounds II

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Estimation of Glucose
9	1	Estimation of Ketone
10	1	Observation test
11	1	Spectral interpretation of organic molecules-I
12	1	Spectral interpretation of organic molecules-III
13	1	Model Practical
14	1	Model Practical
15	1	observation test-2

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LESSON PLAN

Name of the Staff	**ADAIKALARAJ C**	Academic Year	**2023-2024**
Department	**Chemistry**	Semester	**4**
Subject	**JPCH1017 : SEMINAR&PAPER PRESENTATION**	Course	**Chemistry**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction about research methodology
2	1	How to choose the particular area of research based on current problems
3	1	Explanation about thesis writing
4	1	Literature survey
5	1	Aim and scope of the particular research work
6	1	Introduction
7	1	Scheme preparation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Materials and methods
9	1	Synthesis of some Inorganic and organic compounds
10	1	Spectral analysis
11	1	Spectral analysis
12	1	Results and discussion
13	1	Summary writing
14	1	Reference
15	1	Thesis correction

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19PCS808 : WIRELESS COMMUNICATION TECHNOLOGIES**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO PROTOCOLS AND THE TCP/IP SUITE - The Need for a Protocol Architecture, The TCP/IP Protocol Architecture,
2	1	The OSI Model, Inter-networking. Wireless Communication Technology- Antennas and Propagation
3	1	Antennas, Propagation Modes, Line-of-Sight Transmission, Fading in the Mobile Environment.
4	2	SIGNAL ENCODING TECHNIQUES- Signal Encoding Criteria, Digital Data- Analog Signals, Analog Data-Analog Signals, Analog Data-Digital Signals
5	2	The Concept of Spread Spectrum- Frequency Hopping Spread Spectrum , Direct Sequence Spread Spectrum
6	2	Code Division Multiple Access, Generation of Spreading Sequences.
7	3	WIRELESS NETWORKING - Satellite Communications- Satellite Parameters and Configurations, Capacity Allocation-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Frequency Division, Capacity Allocation-Time Division Cellular Wireless Networks- Principles of Cellular Networks
9	3	First-Generation Analog, Second-Generation - TDMA, CDMA, Third-Generation Systems
10	4	CORDLESS SYSTEMS AND WIRELESS LOCAL LOOP- Cordless Systems, Wireless
11	4	Local Loop - Wireless LANs- Wireless LAN Technology – Overview, Infrared
12	4	LANs, Spread Spectrum LANs, Narrowband Microwave LANs.
13	5	IEEE 802.11 WIRELESS LAN STANDARD- IEEE 802 Protocol Architecture, IEEE 802.11
14	5	Architecture and Services, IEEE 802.11 Medium Access Control.
15	5	Introduction to Wi-Fi and Bluetooth Technologies (Only Overview).

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LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCSP102T : PRACTICAL -2 : ADVANCED UNIX PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple shell script programs
2	1	Simple shell script programs
3	1	copy, rename and print multiple files using choice menus.
4	2	to display logged in users who are using high CPU percentage
5	2	list processes based on CPU percentage
6	2	list processes based on memory un usage
7	3	to display total used and free memory space.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	command-line input a number n and a word and print the word n times, one word per line.
9	3	shell program using While-loop
10	4	shell program using For-loop
11	4	shell program using If-then-else
12	4	shell program using Switch
13	5	script using grep statement
14	5	shell script to search all immediate sub-directories of the current directory
15	5	Revision

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LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**PCS807S : DOT NET TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO DOTNET TECHNOLOGY – Dot Net Framework Overview – –
2	1	Activities of CLR – DotNet Applications
3	1	Introduction to Visual Studio IDE – Types of Dotnet Languages.
4	2	Introduction to C# : Introduction to C# - data types in C# -
5	2	conditional statement, if…else – looping statement, while…/for loop
6	2	properties in C# - namespaces in C#.
7	3	Introduction to ASP.NET – architecture of ASP.NET - difference between asp and ASP.NET –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	page events in ASP.NET -controls in ASP.NET(server side controls and html controls) -the code behind web forms (separation of content & business logic)
9	3	life cycle of a web forms page-stages in web forms page – web forms event model.
10	4	Introduction to ADO.net : Introduction to ADO.net
11	4	ADO.net Architecture
12	4	Connection – data reader – command Class.
13	5	DISCONNECTED ARCHITECTURE IN ADO.NET : Key components of ADO.net disconnected
14	5	DataSet class– DataAdapter class
15	5	Working with data grids in ASP.NET - with ADO.net

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LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**PCSP203S : PRACTICAL -3 : DOT NET LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	.simple programs in c#
2	1	Splash Screen in c#
3	1	.Notepad Application in c#
4	2	Student Marksheet program and Ms-Access in c#
5	2	Login Form Creation program and Ms-Access in c#
6	2	Model practical 1
7	3	Creating Student Bio-Data in Asp.net

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Request and Response Application using C# and Ms-Access in asp.net
9	3	Chatting using application and session object in asp.net
10	4	Application using AdRotator Control in asp.net
11	4	File uploading and downloading using server object in asp.net
12	4	Telephone Record maintenance and Ms-Access in asp.net
13	5	Model practical II
14	5	General programs
15	5	Model practical 3

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LESSON PLAN

Name of the Staff	**Dr.JAYAPAL J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCS704S : UNIX NETWORK PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	File descriptors , file sharing and file access permissions
2	1	File system and symbolic links, standard I/O library
3	1	system data files and information, system identification.
4	2	Environment of Unix process, Process termination.
5	2	Process control and Process termination.
6	2	Signals and threads, process relationships.
7	3	Introduction and message passing, (SVR4) Pipes and FIFO.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mutexes, Condition variables, message passing, and Synchronizations.
9	3	Read and Write locks, File locking and shared memory(SVR4).
10	4	Introduction , Transport layers , socket Introduction.
11	4	TCP Socket, UDP socket, and raw socket.
12	4	Socket option and I/O multiplexing, name and address conversations.
13	5	Debugging Techniques, TCP echo client server.
14	5	UDP echo client server and Ping.
15	5	Client server application, file transfer and chat.

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LESSON PLAN

Name of the Staff	**ARUN BENEDICT A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19PCS809 : WEB TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Hardware elements associated with internet Internet Services
2	1	Internet Protocols TCP/IP UDP HTTP Other Protocols Telnet Gopher
3	1	Mail and its types FTP Remote access Web Indices Search Engines
4	2	Tags and Documents Link documents using Anchor Tags
5	2	Images and Pictures Tables
6	2	HTML Forms Frames Frame set.
7	3	Java Script Data types Operators

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Variables Conditional Statements Functions
9	3	Objects Document object Window Object Event Handling .
10	4	Well formed XML CSS
11	4	XSL Valid XML DTD
12	4	XSD Introduction to DOM and SAX Parsers.
13	5	: Server Side Scripting basics – Server Side Scripting Languages –
14	5	PHP Scripting General Syntactic Characteristics Primitives, operations and expressions Control Statement Arrays Functions
15	5	Pattern Matching Form Handling Files Cookies Session Tracking Database access with PHP and MYSQL.

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19PCSP24 : PRACTICAL -4 : WEB TECHNOLOGY LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Create a HTML table with rows and columns and split them using Rowspan and Colspan.
2	1	Create a web page in the format of front page of a news paper using Text links. Align the text with colors.
3	1	Write a HTML program for new email account registration. Validate the input using Java Script.
4	1	Write an XML document to display your bio-data. Write an XSL style sheet and attach that to the XML document. Validate the document using DTD or XSD.
5	1	Write a server side PHP program that displays marks, total, grade of a student in tabular format by accepting user inputs for name, number and marks from a HTML form.
6	1	Write a server side PHP program that displays marks, total, grade of a student in tabular format by accepting user inputs for name, number and marks from a HTML form.
7	1	Write a PHP program to access the data stored in a mysql table.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Develop a simple Web page using Html and JavaScript about your college.
9	1	Write a JavaScript Program to prepare a salary slip for an Employee
10	1	Write a JavaScript Program to prepare a salary slip for an Employee
11	1	Write a JavaScript Program to prepare a salary slip for an Employee
12	1	Write a JavaScript Program to illustrate the use of String Functions
13	1	Write a JavaScript Program to illustrate the use of String Functions
14	1	Write a JavaScript Program to illustrate the use of Mathematical Functions and Date Functions.
15	1	Write a JavaScript Program to illustrate the use of Mathematical Functions and Date Functions.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCS703S : ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Working with windows using AWT Classes AWT Controls
2	3	Layout Managers Menus
3	3	Swing- Introduction to Swing Swing Architecture Examples for Swing
4	3	JDBC Architecture JDBC/ODBC drivers Types of Drivers
5	3	MSACCESS connection Steps SQL Commands
6	3	Java Database: Connectivity Using MS-Access A complete example.
7	4	Basics of Networking: Sockets Inet Address HTTP

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	URL IP Address Port number
9	4	Client/Server computing using TCP/IP TCP client – server handling multiple clients
10	4	UDP Sockets
11	4	UDP Server & UDP Client
12	4	Multithreaded clients.
13	5	RMI architecture parameter in RMI
14	5	RMI Client side callbacks Installing RMI systems
15	5	serializing remote objects. Example Using RMI-Overview of Syllabus--Review of Past Year Semester QP

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCSP101T : PRACTICAL -1 : ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Simple Programs on Applets
2	3	Programs based on Applet Components
3	3	Working with Frames and Various Controls.
4	3	Incorporating Graphics
5	3	Font animation using Applets Interface.
6	3	Programs based on Swing Components & Menus
7	4	Working with Frames and Various Controls.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Write a program to print student information using JDBC
9	4	Write a program to implement Client and Server application using TCP/IP.
10	4	Write a program to display the IP Address of a given Different Host Machines.
11	4	Simple Program using URL & URL Connections.
12	4	Java program to demonstrate working of URL
13	5	simple client server chat program in java using rmi
14	5	Write a program to implement addition operation using RMI.
15	5	Java program to implement arithmetic operations using RMI

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**EPCS810B : GRID COMPUTING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Grid Grid Computing & Key Issues Applications Other Approaches
2	1	Grid Computing Standards Grid Topology
3	1	Components & Layers Pragmatic Course of Investigation.
4	2	GOAL BENEFITS & STATUS OF TECHNOLOGY: Motivations History of Computing,
5	2	Communications and Grid Computing Grid Computing Prime Time Suppliers and Vendors
6	2	Economic Value Challenges of Grid
7	3	COMPONENTS OF GRID COMPUTING SYSTEMS & ARCHITECTURE: Basic Constituent Elements A Physical View

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	A Functional view
9	3	Service View.
10	4	COMPONENTS OF GRID COMPUTING SYSTEMS & ARCHITECTURE Standardization Architectural Constructs
11	4	Practical view-OGSA/OGSI Service Elements
12	4	Layered Model More Detailed View.
13	5	STANDARDS SUPPORTING GRID COMPUTING-OGSA Functionality Requirements OGSA Service Taxonomy
14	5	Service Relationships
15	5	OGSA Services Security Considerations.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**PCSP203S : PRACTICAL -3 : DOT NET LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Programs based on basic controls in C#
2	1	Simple programs on Check Boxes and Radio Buttons in C#
3	1	Creation of Simple Windows Applications on C#.NET
4	2	Programs based on Control Statements in C#
5	2	Simple Programs Based on web Parts Controls in C#
6	2	Simple Applications Using Login Controls in C#
7	3	Programs based on basic controls in ASP.NET.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Simple programs on Navigation Controls in ASP.NET
9	3	Creation of Simple GUI Applications on ASP.NET
10	4	Programs based on ADO.NET in ASP.NET.
11	4	Creating Student Bio-Data using ASP.Net
12	4	Application using AdRotator Control.
13	5	Programs based on File Upload Control
14	5	Programs based on Multi Views
15	5	E-Mail Record maintenance Using Ms-Access.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCS703S : ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO JAVA Introduction to Java – Features of Java
2	1	- Data types – Variables Operators - Arrays
3	1	– Classes – Objects – Constructors
4	1	- Overloading method String class – Inheritance - Overriding Method – Using super
5	1	Abstract class - Packages – Access protection.
6	2	Packages - Importing packages
7	2	interface exception

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Multhithreading
9	2	AWT concepts
10	2	Swing components
11	5	RMI
12	5	operations on RMI
13	5	Servlets Basics
14	5	Servlet Architecture,Servlet connection
15	5	Revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCSP101T : PRACTICAL -1 : ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic programs in java
2	1	Logical programs using classes and objects
3	1	BufferedReader class programs multhithreading code
4	2	Jdbc code File code
5	2	Jdbc code
6	2	AWT code Applet
7	3	network code

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	network code
9	3	rmi code
10	4	Rmi code networking
11	4	Model practical
12	4	AWT codes
13	5	MENU,IP Address
14	5	Model practical
15	5	Lap Programs Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**PCSP203S : PRACTICAL -3 : DOT NET LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	basic window application
2	1	splash screen
3	1	notepad application
4	2	student marksheet program and MS-Access
5	2	login form creation and MS-Access
6	2	creating biodata in .NET
7	3	request and response application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	chatting application using session
9	3	application using AdRotator control
10	4	File uploading and downloadimg using server object
11	4	telephone record maintanence and MS-Access
12	4	Model practical-1
13	5	Model practical-2
14	5	Model practical-3
15	5	revision

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCS702S : OBJECT ORIENTED ANALYSIS AND DESIGN AND UML**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction to OOAD
2	2	Introduction to OOAD-Basic Concepts
3	2	Introduction to OOAD-Methodologies
4	2	Analysis,Design,Implementation,Prototype-Phases
5	2	Object,Class . Rambaugh OMT Methodologies
6	2	Class Diagram,State Transition Diagram,Process Diagram
7	2	UML.Booch Methodology_Macro Development Process,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Micro Development Process Jacobson's Methodology
9	2	OOBE,OOSE,Usecase Approach
10	2	UML -development Process, Layers of SDL
11	2	Patterns-Anti Patterns
12	2	Frame work-criteria-templates
13	2	UML-Unified Approach
14	2	UML Repository
15	2	UML Layered Approach -Business Layer-View Layer-Access Layer

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19PCSP24 : PRACTICAL -4 : WEB TECHNOLOGY LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	HTML Tags
2	1	HTML Links
3	2	Table Tags
4	2	Hyper-Links
5	3	Frames
6	3	Input Button
7	4	Students Mark List

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Telephone Directory
9	6	Invoice Bill
10	7	College Registration Form
11	8	Display Images into Frames
12	8	Load Image Into HTML Page
13	9	Implement all Types of Lists
14	10	Filter, Sort Lists
15	11	Display and Load Events into Frames

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**PCS806S : SOFTWARE TESTING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Software Testing-Introduction-Purposr of Software Testing
2	1	Complete Testing,Bugs
3	1	Taxonomy of Bugs and Consequences of Bugs
4	3	Types of Testing-Introduction,Functional System Testing
5	3	Non-Functional Testing,Regression Testing
6	3	Internationalization Testing,Ad-hoc Testing
7	5	Organizations Structures For Testing Teams

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Dimensions and Structures of Testing
9	5	Single Product Company and Multi Product Company
10	5	Effects of Gobalization,Testing Service Organization
11	5	Test Management and Test Automation
12	5	Test Planning and Test Process
13	5	Test Reporting-Tools
14	5	Best Practices of Testing
15	5	Case Study

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LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**EPCS705Q : COMPUTER SYSTEM ARCHITECTURE**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Shared Memory Multiprocessor Distributed Memory Multicomputers
2	1	Vector Supercomputer SIMD Supercomputer PRAM Model
3	1	VLSI Complexity Model Condition of Parallelism
4	2	Advanced Processor Technology
5	2	Memory Hierarchy Technology
6	2	Cache Memory Organizations
7	3	Linear Pipeline Processors

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Non linear pipeline processor
9	3	Instruction pipeline design Arithmetic pipeline design
10	4	Multiprocessor system interconnects
11	4	Vector processing principles
12	4	SIMD Computer organizations implementation models
13	5	Latency hiding techniques Shared virtual memory
14	5	Prefetching techniques Distributed cache coherents
15	5	Principles of multithreading

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LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCS702S : OBJECT ORIENTED ANALYSIS AND DESIGN AND UML**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Unified modeling language, static, Dynamic modeling
2	3	benefits of modeling
3	3	UML Diagrams
4	3	use case diagram
5	3	class diagram
6	3	class interface diagram, object diagram, Generalization, Aggregation
7	3	sequence diagram

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Collaboration diagram
9	3	State chart diagram
10	3	Activity diagram
11	3	Implementation diagram, component diagram
12	3	Deployment diagram
13	3	UML extensibility
14	5	Testing strategies, black box testing
15	5	White box testing, revision

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LESSON PLAN

Name of the Staff	**MIRANDA LAKSHMI T**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**PCS806S : SOFTWARE TESTING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Software Development Life Cycle Models
2	2	Phases of Software Project - Quality – Assurance – Control
3	2	Testing - Verification- Life Cycle Model - Waterfall Model
4	2	- Rapid Application Development Models
5	2	Spiral Model
6	2	V Model.
7	3	Types of Testing: White Box Testing

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Static Testing-Structural Testing-Black Box Testing
9	3	Integration Testing- Phase of Testing- Scenario Testing
10	3	Defect Bash-System and Acceptance Testing
11	4	Test of Object Oriented Systems: Usability and Accessibility Testing-Approach-
12	4	Quality Factors-Tools for Usability
13	4	Test roles for usability-Common People issues
14	4	Comparison between Testing and Development Functions-
15	4	Role of Echo system.

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**PCS702S : OBJECT ORIENTED ANALYSIS AND DESIGN AND UML**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction OOAD
2	1	Process Model of Software Life cycle
3	1	Class and Object
4	1	Object Attributes
5	1	Object Relationship and Associations
6	1	Inheritance
7	1	Polymorphism, Encapsulation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Object-Oriented Analysis and Design Model
9	1	Object oriented software Development Life cycle
10	4	OBJECT ORIENTED ANALYSIS
11	4	Use Case Model
12	4	Developing Effective Documentation
13	4	OBJECT ORIENTED DESIGN
14	4	Axioms, Corollaries
15	4	Design Patterns.

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**EPCS914T : PRINCIPLES OF COMPILER DESIGN**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction-Compiler-types-Phases of a compiler
2	1	Introduction to Automata-types-DFA-NFA-
3	1	Regular expression-conversion-examples
4	2	Parser types-examples- CFG-Role of Parser-Top Down Parsing-Recursive descent parsing,Predictive parser
5	2	Bottom up Parsing-Shift reduce parsing-examples-
6	3	Syntax directed definition-Syntax tree construction-Intermediate code generation-Intermediate languages-
7	3	Syntax tree-postfix form-Three address code-boolean expressions-Revision of semester question paper problems..

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Parsing techniques-problems-LR parser-operator precedence parsing techniques-
9	4	Symbol table -content-examples-
10	4	Storage allocation-symbol table-stack allocation-examples--
11	4	Operator precedence parsing technique
12	5	Principe sources of code optimization-peephole optimization
13	5	Loop optimization with examples
14	5	Simple code generator and its algorithms
15	5	University question papers - discussion-

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LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCSP305S : PRACTICAL -5 : PHP & MYSQL LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Printing Multiplication Table.
2	1	Creating Bio-Data Using PHP and HTML.
3	1	Marksheet Preparation.
4	2	Shopping Cart.
5	2	program Using Conditional statements
6	2	program using loop structures
7	3	program Using Class and Objects

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Creating Feedback Form Using PHP Functions.
9	3	Shell Program in PHP to find User Session
10	4	Cookie to Find the Visit of user in a Web page.
11	4	model practical
12	4	Storing and accessing employee details in MMYSQL
13	5	Connecting the MySQL Database with PHP.
14	5	Accessing Operations in MySQL DB using PHP.
15	5	model practical

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON DURAI A.R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCS911 : DATA MINING AND WAREHOUSING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Data mining –Introduction-classification of data mining system-Data mining Vs Data base
2	1	Application of data mining-Data mining functionalities
3	1	Integration of data mining system with the data warehouse system.
4	2	Knowledge Discovery process-Data cleaning: missing values-noisy data
5	2	Data cleaning as a process-Data Integration and Transformation-Data Reduction
6	2	Types of OLAP servers: ROLAP Vs MOLAP Vs HOLAP-Decision trees- Neural network- Genetics algorithms.
7	4	Bayesian classification- Baye's theorem

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	-Rule based classification: Using IF-THEN rules for classification-Rule Extraction from a decision tree
9	4	-Prediction-Cluster Analysis-Types of data in cluster analysis.
10	5	Data warehouse scoping and planning
11	5	Testing and implementation of data warehouse
12	5	Advantages of Data warehousing –Disadvantages of data warehousing.
13	3	Unit - 3 - Shared By Mrs.Christy
14	3	Unit - 3 - Shared By Mrs.Christy
15	3	Unit - 3 - Shared By Mrs.Christy

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LESSON PLAN

Name of the Staff	**ARUN BENEDICT A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCS912T : OPEN SOURCE TECHNOLOGY**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	PHP as Open Source – First Script – Beginning and Ending a block –comments in PHP
2	1	variables – Data types
3	1	Operators and Expressions – Constants- Using PHP Script with HTML.
4	2	Branching and Looping Statements – Break and Continue statements – Nested Loops.
5	2	Defining functions – calling functions – user defined functions – variable scope.
6	2	Creating Arrays – Associative arrays – Multidimensional arrays – accessing arrays – manipulating arrays – sorting arrays.
7	3	I/O Functions – Data Functions –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Time, Date and Mathematical Functions – Database functions.
9	3	Database functions.
10	4	Understanding RDBMS –
11	4	Working with Databases and Tables
12	4	Editing Records and Performing Queries – MySQL Access Controls.
13	5	Querying a MySQL Database with PHP –
14	5	Validating User Input
15	5	Formatting Query Output.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCS913P : CLOUD COMPUTING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO CLOUD COMPUTING: Roots of Cloud Computing -Layers and Types of Cloud - Features of a Cloud - Infrastructure Management--
2	1	Cloud Services - Challenges and Risks - Migrating into a Cloud: Introduction - Broad Approaches
3	1	Seven Step Model - Integration as a Service - Integration Methodologies - SaaS
4	2	Virtual Machines - Layered Architecture - Life Cycle - VM Provisioning Process - Provisioning and Migration Services
5	2	Management of Virtual Machines Infrastructure - Scheduling Techniques - Cluster as a Service
6	2	RVWS Design - Logical Design - Cloud Storage – Data Security in Cloud Storage - Technologies
7	3	PLATFORM AND SOFTWARE AS A SERVICE: Integration of Public and Private Cloud Techniques and Tools Framework Architecture Resource Provisioning Services Hybrid Cloud Cloud Based Solutions for Business Applications

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Dynamic ICT Services Importance of Quality and Security in Clouds Dynamic Data Center Case Studies Workflow Engine in the Cloud Architecture
9	3	Utilization Scientific Applications for Cloud Issues Classification SAGA - Map Reduce Implementation.
10	4	MONITORING AND MANAGEMENT: An Architecture for Federated Cloud Computing Use Case - Principles - Model - Security Considerations –
11	4	SLA Management - Traditional Approaches to SLO - Types of SLA- Life Cycle of SLA - Automated Policy - Performance Prediction of HPC
12	4	Grid and Cloud - HPC Performance Related Issues.
13	5	APPLICATIONS: Best Practices in Architecture Cloud Applications in the AWS Cloud
14	5	Massively Multilayer Online Game Hosting on Cloud Resources
15	5	Building Content Delivery Networks using Clouds – Resource cloud Mashups Overview of Syllabus-Review of Past Year Semester QP

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**JPCS306 : MINI PROJECT (SYSTEM PROGRAMMING)**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple project on .net
2	1	basic project introduction
3	1	Steps for Initial Planning and Design of Project
4	2	Website pages Creation for Project Development
5	2	Sample Modules design for creating Web pages
6	2	To use CSS in your web site
7	3	Designing Module using CSS Web Site Templates

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Designing Module using CSS Card Classes
9	3	Designing Module using CSS Button Classes
10	4	Designing Module CSS Animations Designing your web forms using the FileUpload control and its properties
11	4	Implementation of Validation & Data Controls in Web forms
12	4	Simple application developed Using ADO.net using MS-Access
13	5	Simple application developed Using ADO.net using MS-Access with Server Controls
14	5	Application developed Using ADO.net using MS-Access with Data Binding
15	5	Making of Web Applications using Dot net Framework

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCS911 : DATA MINING AND WAREHOUSING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction to Preprocessing,Classification Techniques
2	3	Data Warehousing,Cleaning
3	3	Architecture of Data Warerhousing,OLAP
4	3	Multidimensional view of Data Warehousing
5	3	OLAM-Data Mining,Difference Between OLAP and OLAM,Implementation
6	3	OLAM-Business enterprises,Information Processing,Analtical Processing
7	3	OLAP Tools,OLAP Driven Process

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data Mining,Classification,Prediction,Association
9	3	Data Cubes,Joining,Association
10	3	MultiModel Dimensions of Data Warehousing
11	3	Data Warehousing, Tools
12	3	Warehousing Operations-Logistics
13	3	OLAP-Processing-OLAP-Mining
14	3	Back End Tools and Utilities
15	3	Data Ware-House Implementation

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LESSON PLAN

Name of the Staff	**CHRISTY C**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCSP305S : PRACTICAL -5 : PHP & MYSQL LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of PHP,SQL
2	1	Multiplication Table.
3	2	Creating Bio_Data
4	3	Creation of Marksheet
5	3	Business shopping Cart
6	4	Class,Objects Usage
7	4	Creation of Forms, Functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Creation of FeedBack form using PHP Functions
9	5	To find User Session using Shell Program
10	6	Student Marksheet Preparation
11	7	Telephone Directory Generation
12	7	OLEDB Data Base Connection Using PHP
13	8	10. Accessing Operations in MySQL DB using PHP
14	9	6. Creating Feedback Form Using PHP Functions
15	10	8. Cookie to Find the Visit of the user in a Web page

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**PCSP305S : PRACTICAL -5 : PHP & MYSQL LAB**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASIC COMMENTS
2	1	LOGICAL PROGRAMMES IN PHP
3	1	PHP program to find the length of the string.
4	2	PHP program to count the words in the string.
5	2	PHP program to convert all the characters inside the string into uppercase.
6	2	program to calculate factorial of a number using for loop in php
7	3	PHP program to find factorial of a number using recursive function.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	PHP program using nested for loop that creates a chess board.
9	3	PHP program to calculate electricity bill using if-else conditions.
10	4	LOGIN PAGE
11	4	FORM DESIGN
12	4	PHP program to calculate electricity bill using if-else conditions.
13	5	LOGICAL PROGRAMMES IN PHP
14	5	program to calculate factorial of a number using for loop in php
15	5	DATABASE CONNECTION

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LESSON PLAN

Name of the Staff	**BENJAMIN FRANKLIN I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**PIT12B : INTRODUCTION TO INFORMATION TECHNOLOGY**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Computers - Computer System Concepts - Characteristics of Computer - Generations and Types of computers
2	1	Components of Computer System - Booting Process - Classification of Digital Computer System
3	1	Organization of Computers - Input and Output Devices - Storage Devices - Revision and Class Test
4	2	Computer Software : System Software - Application Software - Firmware. Programming Languages Classification : Machine Language - Assembly Language and High-Level Language.
5	2	Evolution of Programming Languages : First Generation - Second Generation - Third Generation and Fourth Generation Languages. Language Translator : Compiler - Interpreter and Assembler.
6	2	Operating System:Definition - Job - Objective and Evolution of Operating System - Types of Operating Systems. - Revision and Class Test
7	3	Network Communication : Definition - Criteria - Advantages and Limitations of Computer Networking - Communication Process.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Communication Types - Types of Computer Network - Network Topology - LAN and other Network Related Protocols
9	3	OSI model -TCP/IP model - Networking Components - Revision and Class Test
10	4	Network Applications : Introduction about Internet - Internet Basics -Internet Protocols
11	4	Internet Addressing - Browser - WWW - E-mail - TelNet - FTP
12	4	Application - Benefits and Limitation of Internet - Electronic Conferencing - Teleconferencing - Revision & Class Test
13	5	Latest IT Trends : E-Commerce - M-Commerce - Artificial Intelligence -Computational Intelligence
14	5	Geographic Information System (GIS) - Data Mining
15	5	Role of IT in different Areas : Education, Industry, Banking, Marketing, Public Services and Others. - Overall revision and Model test

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LESSON PLAN

Name of the Staff	**BENJAMIN FRANKLIN I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18EPIT24 : CLOUD COMPUTING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Cloud Computing: Cloud Computing: Definition, Cloud Architecture, Cloud Storage, Advantages and Disadvantages of Cloud Computing, Companies in the Cloud Today, Cloud Services
2	1	Cloud Types: The NIST Model, The Cloud Cube Model, Deployment Models, Service Models
3	1	Cloud Computing, Service Models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS). Revision and Test
4	2	Developing Cloud Services: Web-Based Application – Pros and Cons of Cloud Service Development
5	2	Types of Cloud Service Development – Software as a Service – Platform as a Service – Web Services – On-Demand Computing
6	2	Discovering Cloud services - Development services and tools - Amazon EC2 - Google App Engine - IBM Clouds. Revision and Test
7	3	Cloud Computing for Everyone: Centralizing Email Communications – Collaborating on Schedules

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Collaborating on To-Do Lists – Collaborating Contact Lists – Cloud Computing for the Community
9	3	Collaborating on Group Projects and Events – Cloud Computing for the Corporation. Revision and Test
10	4	Using Cloud Services: Collaborating on Calendars, Schedules and Task Management – Exploring Online Scheduling Applications
11	4	Exploring Online Planning and Task Management – Collaborating on Event Management – Collaborating on Contact Management
12	4	Collaborating on Project Management – Collaborating on Word Processing - Collaborating on Databases – Storing and Sharing Files. Revision and Test
13	5	Cloud Security and Challenges: Cloud computing security architecture: Architectural Considerations- General Issues, Trusted Cloud computing, Secure Execution Environments and Communications,
14	5	Micro-architectures; Identity Management and Access control Identity management, Access control, Autonomic Security
15	5	Cloud computing security challenges: Virtualization security management virtual threats, VM Security Recommendations, VM--Specific Security techniques, Secure Execution Environments and Communications in the cloud. Revision and Test

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To find the area and perimeter of a Circle and Rectangle using Buffered Reader Class.
2	1	Implementing packages for simple application. Implementing Interfaces in Java.
3	1	Writing Basic SQL Statements
4	2	Working with Built-in-functions of SQL. Joins & Sub queries
5	2	Create an application using AWT Controls. Loading image onto Applet.
6	2	Chatting application using TCP/IP. To develop a program for factorial of a number using RMI
7	3	PL-SQL blocks. Exception Handling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cursors.
9	3	Triggers. Working with Abstract Data Types
10	4	Create a Login form using Servlet in NetBeans.
11	4	To develop a program for factorial of a number using RMI
12	4	To develop an application for Student Mark List using Servlet with Database (Ms-Access).
13	5	Table Constraints
14	5	String Manipulation using String and String Buffer Class.
15	5	Creating Stored procedures, functions and packages.

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18JPIT22 : PROJECT - II : JAVA PROGRAMMING OR RDBMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	System Analysis
2	1	Requirements Gathering
3	1	Requirement Eliciting
4	2	Designing using Design Tools
5	2	Unified Modelling Language
6	2	Structure Chart
7	3	Software Selection Languages

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Coding
9	3	Coding
10	4	Testing
11	4	White Box Testing
12	4	Black Box Testing
13	5	Software Maintenance
14	5	Quality Assurance
15	5	RFP's

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**PITP11B : PRACTICAL - I : C - PROGRAMMING AND WEB TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Create console-based applications using C language. Develop simple console-based programs using C language with features like decision making statements, loops.
2	1	Write modular programs by using functions. Use preprocessor directives in a program.
3	1	Use pointers to handle integer arrays. Develop C programs using structures, pointers.
4	2	Use pointers to handle integer arrays, strings and files. Process data in files using file I/O functions.
5	2	Develop C programs using dynamic memory allocation. C program to find binary addition and binary subtraction.
6	2	Usage of Simple HTML commands, Graphics and image formats and Background Graphics and Color.
7	3	HTML Program to demonstrate the Usage of Tables, Frames, Forms, hyperlinks.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	How to create a simple CSS style sheet using notepad.
9	3	Write CSS code to apply different style (color, background color).
10	4	Write a JavaScript function that converts upper case to lower case, and lower case to upper case in one form and display it in another form.
11	4	Write a JavaScript code block, which validates a username and password.
12	4	Write Asp.net program to check whether the given number is an Armstrong number and display the result using a popup window.
13	5	Write a Asp.net program to get substring from a given string and change the color using scroll bar, font size and name using a value entered in a text box.
14	5	Develop a simple database program to prepare a student mark Sheet using ms-access simple applications using ASP.
15	5	Develop a simple database program to prepare a student mark Sheet using ms-access simple applications using ASP.

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LESSON PLAN

Name of the Staff	**SURESH G**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18PIT23 : SOFTWARE TESTING**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Principles of Testing
2	1	Software Development Life Cycle Models: Waterfall Model,Prototyping,RAD Model
3	1	Software Development Life Cycle Models: Spiral Model, V-Model,Modified V-Model
4	2	Testing techniques: Unit testing-Integration Testing
5	2	System and Acceptance Testing
6	2	White Box Testing-Black Box testing
7	3	Testing fundamentals & Specialized Testing: Performance Testing

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Regression Testing-Testing of Object Oriented Systems
9	3	Usability and Accessibility Testing
10	4	Test Planning
11	4	Test Management
12	4	Test Execution and Reporting.
13	5	Software Tools: Software Test Automation
14	5	Test Metrics and Measurements
15	5	Case study: Agile tool

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**JPIT11A : PROJECT - I: C - PROGRAMMING / WEB TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Create console-based applications using C language.
2	1	Develop simple console-based programs using C language with features like decision making statements, loops.
3	1	Develop simple console-based programs using C language with features like decision making statements, loops.
4	2	Write modular programs by using functions
5	2	Write modular programs by using functions
6	2	Use preprocessor directives in a program.
7	3	Use pointers to handle integer arrays.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Develop C programs using structures, pointers.
9	3	Use pointers to handle integer arrays, strings and files.
10	4	Process data in files using file I/O functions.
11	4	Process data in files using file I/O functions.
12	4	mini project
13	5	miniproject
14	5	C program to find binary addition and binary subtraction.
15	5	Develop C programs using dynamic memory allocation.

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LESSON PLAN

Name of the Staff	**LOURDU CAROLINE A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**PIT11B : PROBLEM SOLVING TECHNIQUES USING C**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to C
2	1	Constants,Operators and Expressions.
3	1	Variables, Data types
4	2	Managing Input and Output operations
5	2	Decision Making and Branching
6	2	Decision making and Looping
7	3	Arrays , Character Arrays and String

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	User defined Functions
9	3	Built-in-Functions.
10	4	Structures and unions ,Pointers
11	4	Pointers with Arrays
12	4	Pointers with structures.
13	5	File management ,Dynamic memory allocation
14	5	Preprocessors
15	5	Graphics in C

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18PIT21 : OBJECT ORIENTED PROGRAMMING USING JAVA**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Java - Features of Java
2	1	Data types – Classes and Objects – Constructors
3	1	String Class - Using Super - Abstract class.
4	2	Creating Packages – Importing Packages
5	2	Interfaces - Defining an Interface, Implementing Interfaces
6	2	Exception Handling (Try, Catch, Throw and Throws) –Thread – Multithreading.
7	3	AWT: AWT Hierarchy (Components & Containers) – AWT Controls (Label, TextField, TextArea, CheckBox, Button)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Layouts - Sample Program using AWT Controls.
9	3	Applets: Introduction to Applets – Life Cycle of Applets – Sample program using Applets.
10	4	Networks basics - Socket Programming - Proxy Servers - TCP/IP Sockets
11	4	INet Address - URL - Datagrams
12	4	Architecture of RMI – An example program using RMI.
13	5	JDBC Overview – JDBC Drivers – Connection Class – Command Class – ResultSet Class
14	5	Servlet: Servlet Overview – Servlet Terminology – Servlet API – HTTP Servlet Class – Servlet Life cycle
15	5	Session Tracking in Servlets (Cookies, Hidden Form Field, URL Rewriting-HTTP Session) - Create a Servlet in NetBeans.

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1. To find the area and perimeter of a Circle and Rectangle using Buffered Reader Class
2	1	2. String Manipulation using String and String Buffer Class.
3	2	3. Implementing packages for simple application
4	2	4. Implementing Interfaces in Java.
5	3	5. Create an application using AWT Controls
6	3	contd.. Create an application using AWT Controls
7	3	6. Loading image onto Applet

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	7. Chatting application using TCP/IP.
9	3	contd.. Chatting application using TCP/IP.
10	4	8. To develop a program for factorial of a number using RMI
11	4	contd.. To develop a program for factorial of a number using RMI
12	5	9. Create a Login form using Servlet in NetBeans
13	5	contd.. Create a Login form using Servlet in NetBeans
14	5	10.To develop an application for Student Mark List using Servlet with Database (Ms-Access).
15	5	contd.. To develop an application for Student Mark List using Servlet with Database (Ms-Access).

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18JPIT22 : PROJECT - II : JAVA PROGRAMMING OR RDBMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	software requirements
2	1	software requirements
3	1	software requirements
4	2	designing
5	2	designing
6	2	designing
7	3	database concept

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	database concept
9	3	database concept
10	4	Implementation
11	4	Implementation
12	4	Implementation
13	5	developing modules
14	5	Testing
15	5	launching the software

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**18EPIT14 : E-COMMERCE**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to E-Commerce- The Revolution is just beginning
2	1	A brief History about E-commerce
3	1	Understanding E-commerce: Organizing Themes.-technology-society
4	2	E-Commerce business models and concepts: E-commerce Infrastructure - E-Commerce Business Models - Major Business to Consumer(B2C) Business Models - Major Business to Business(B2B) Business Models - Business Models in emerging E-Commerce Business Areas.
5	2	. How the Internet and Web change the Business: Strategy, Structure and Process, The Internet and World Wide Web: The Internet - Technology background - The Internet Today .
6	2	The Internet II - The Future Infrastructure - The World Wide Web - The Internet and the Web - Features.
7	3	Building an E-Commerce Web site, Security and Payment: A systematic approach - The E-Commerce Security Environment - Security Threats in the E-Commerce Environment .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Technology Solution - management policies - Business procedures and public laws - Payment System .
9	3	E-Commerce payment system - Electronic billing presentment and payment.
10	4	E-Commerce Marketing concepts, online retailing and services , Consumer Online: The Internet audience and Consumer behavior - Basic Marketing Concepts .
11	4	Internet marketing technologies - B2C and B2B E - Commerce marketing and Business strategies - The retail sector - Analyzing the viability of online firms - E-Commerce in auction: E-tailing Business Models .
12	4	Common Themes in Online retailing - The service sector: offline and online - Online financial services - Online travel services - Online career services.
13	5	Social Networks, Auctions and Portals.
14	5	Social Networks and Online Communities .
15	5	Online auctions - E-Commerce Portals.

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LESSON PLAN

Name of the Staff	**NIRMALA A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**PITP11B : PRACTICAL - I : C - PROGRAMMING AND WEB TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	(1) Create console based application using C language (2) Usage of simple HTML commands,Graphics and image formats and background graphics and color
2	1	(1) Develop simple console based programs using C language with features like decision Making statements, loop. (2) HTML Programs to demonstrate the usage of tables, frames, forms, hyperlink.
3	1	(1) Write modular program by using functions. (2) How to create a simple CSS style sheet using notepad
4	2	(1) Use preprocessor directives in a program (2) Write CSS code to apply different style.
5	2	(1) Use pointers to handle integer arrays. (2)Write a JavaScript to convert the Case.
6	2	Develop C programs using structures and pointers
7	3	Write a javascript code block to validate username and password

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Write asp.net program to find sum of all the digits of a given number and check whether given number is Armstrong or not
9	3	Process data in files using file I/O functions
10	4	write a asp.net program to get sub-string from a given string to change the color using scrollbar,fontsize and name using a value entered in text box
11	4	Develop C programs using dynamic memory location
12	4	Write an asp.net program to store staff general information in a database using validation control
13	5	Develop simple database program to prepare a student marksheet using MS-access application using ASP.NET
14	5	Develop C program to find binary addition and subtraction
15	5	Revision

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**JPIT11A : PROJECT - I: C - PROGRAMMING / WEB TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Working with Basic HTML Tags
2	2	Usage of Simple HTML commands, Graphics and image formats and Background Graphics and Color.
3	3	HTML Program to demonstrate the Usage of Tables, Frames, Forms, hyperlinks.
4	4	How to create a simple CSS style sheet using notepad.
5	5	Practical Test
6	6	Write CSS code to apply different style (color, background color).
7	7	Write a JavaScript function that converts upper case to lower case, and lower case to upper case in one form and display it in another form.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Write a JavaScript code block, which validates a username and password. a) If either the name or password field is not entered display an error message. b) The fields are entered do not match with default values display an error message.
9	9	Practical Test
10	10	Write Asp.net program to find sum of all digits of a given number and check whether the given number is an Armstrong number and display the result using a popup window.
11	11	Write a Asp.net program to get substring from a given string and change the color using scroll bar, font size and name using a value entered in a text box.
12	12	Practical Test
13	13	Write an Asp.net program to store the staff's general information like Staff_id, name, mobile_no, Email_id, DOB.,etc., in a database using Validation control and calendar control.
14	14	Develop a simple database program to prepare a student mark Sheet using ms-access simple applications using ASP.
15	15	Model Practical Test

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**1**
Subject	**18PIT13 : WEB TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: Structure of HTML-tag and elements- attributes Tells us about elements- basic text formatting
2	1	Presentational- phase elements- lists- basic link- adding images, flash, video and audio to a webpage- basic table elements and attributes
3	1	Creating a form with the form element- form controls, frames: The frame set elements- the frame element.
4	2	Introduction CSS-CSS properties: Controlling text- text formatting- text pseudo code
5	2	Classes- selectors, links: background- lists- tables
6	2	Outlines- positioning and layout with CSS, design issues: typography - navigation- tables – forms.
7	3	How to add a script to your pages- the document object model- variables

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Operators- functions- conditional statements- looping
9	3	Form validation and enhancement-Java Script libraries- meta tags-HTML5.
10	4	ASP.NET: data types- variables- arrays- properties
11	4	Namespace - method- interface-delegation
12	4	Button- textbox- timer –checkbox- radio button - menu.
13	5	Difference between ASP and ASP.net- architecture of ASP.net- difference between code behind window and aspx file
14	5	Ad -rotator-validation control-calendar controls-ADO.net object model
15	5	Architecture of ado.net- working with crystal report.

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LESSON PLAN

Name of the Staff	**JUSTIN MARSHALL C**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18JPIT22 : PROJECT - II : JAVA PROGRAMMING OR RDBMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	To find the area and perimeter of a Circle and Rectangle using Buffered Reader Class. Writing Basic SQL Statements
2	2	String Manipulation using String and String Buffer Class. Table Constraints
3	3	Implementing packages for simple application. Working with Built-in-functions of SQL.
4	4	Implementing Interfaces in Java. Joins & Sub queries
5	5	Create an application using AWT Controls.
6	5	PL SQL blocks.
7	6	Loading image onto Applet.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	Exception Handling
9	7	Chatting application using TCP/IP.
10	7	Cursors.
11	8	To develop a program for factorial of a number using RMI.
12	8	8. Creating Stored procedures, functions and packages.
13	9	Create a Login form using Servlet in NetBeans. Triggers.
14	10	To develop an application for Student Mark List using Servlet with Database (Ms-Access).
15	10	Working with Abstract Data Types i) Types ii) Object Views iii) Methods iv) Nested Tables v) Varying arrays.

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18PIT22 : RELATIONAL DATABASE MANAGEMENT SYSTEM**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Normalization: First Normal form-Second Normal form-Third Normal form-Creating a Table-Integrity Constraints- Creating, Modifying and Dropping -Select, from, where and Order by
2	1	Logic and Value: Single value tests-LIKE-NULL and NOT NULL-Simple tests against a list of values-Combining logic-
3	1	Dropping tables-Altering a table: Adding or modifying a column-Changing Data: insert-multiple inserts-update-merge-delete-rollback-commit and Save point.
4	2	Data types-String functions-Single value functions-Aggregate functions-List functions-Findings Rows with MAX or MIN-Date functions-Conversion functions-
5	2	Creating a view- Stability of a view-Order by views-Creating a read only view -Grouping Things Together: The use of group by and having-views of Groups-Sub queries-
6	2	Advanced Sub queries-Outer joins-Natural and inner joins-Union, Intersect, and minus.
7	3	Decode and Case: if, then, else-Decode and Case-Creating a table from a table-Using Partitioned Tables: Creating a Partitioned Table-Creating Sub partitions-Indexes-Clusters-Sequences.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Users, Roles and Privileges: Creating a user-Password Management-Standard Roles-Format for grant command-Revoking privileges-What users can Grant: Moving to another user
9	3	Create synonym-Create a role-Granting privileges to a role-Granting a role to another role-Adding password to a role-Removing password from a role ?Enabling & Disabling roles-Revoking privileges from a role-Drop a role.
10	4	Using SQL*Loader to load data: The Control file-Loading Variable length data-Starting the load-Syntax-Managing the data loads-Tuning Data loads
11	4	Using External Tables: Access an external data-External table: Creation-Limitation-Benefits.Object?Relational Databases: Implementing Types-Object Views-
12	4	Methods-Collectors (Nested Tables and Varying Arrays)-Using Large Objects-Advanced Object ?Oriented Concepts.
13	5	Introduction to PL/SQL: Declarations section-Executable commands section-Exception handling section-Cursor Management-Procedures
14	5	Functions & Packages-Triggers: Syntax-Types of Triggers: Row level- Statement level-before & after
15	5	Instead of Schema-Database level triggers-Enabling & Disabling triggers.

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LESSON PLAN

Name of the Staff	**ROSELINE JECINTHA I**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**2**
Subject	**18PITP22 : PRACTICAL - II : JAVA PROGRAMMING AND RDBMS (ORACLE)**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Writing Basic SQL Statements
2	1	Table Constraints
3	1	Working with Built-in-functions of SQL.
4	2	Joins
5	2	Sub queries
6	2	Loading data using SQL*loader
7	3	PL SQL blocks.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Exception Handling
9	3	Cursors.
10	4	Creating Stored procedures
11	4	functions and packages.
12	4	Triggers.
13	5	Working with Abstract Data Types-Types
14	5	Object Views-Methods
15	5	Nested Tables-Varying arrays.

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LESSON PLAN

Name of the Staff	**JOHN PRADEEP EBENEZER A**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**18EPIT33 : INTERNET OF THINGS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction: M2M to IoT: The Vision-Introduction .
2	1	From M2M to IoT- M2M towards IoT-the global context,
3	1	A use case example, Differing Characteristics.
4	2	M2M to IoT – A Market Perspective: Introduction, Some Definitions, M2M Value Chains, IoT Value Chains.
5	2	An emerging industrial structure for IoT, The international driven global value chain and global information monopolies.
6	2	M2M to IoT-An Architectural Overview– Building an architecture, Main design principles and needed capabilities, An IoT architecture outline, standards considerations.
7	3	M2M and IoT Technology Fundamentals: devices and gateways, Local and wide area networking.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Data management, Business processes in IoT, Everything as a Service(XaaS).
9	3	M2M and IoT Analytics, Knowledge Management.
10	4	IoT Architecture-State of the Art : Introduction, State of the art.
11	4	Architecture Reference Model: Introduction, Reference.
12	4	Model and architecture, IoT reference Model.
13	5	Introduction, Functional View, Information View, Deployment and Operational View, Other Relevant architectural views. Real-World Design Constraints: Introduction, Technical Design constraints-hardware is popular again, Data representation and visualizati.
14	5	Industrial Automation: Service-oriented architecture-based device integration, SOCRADES: realizing the enterprise integrated Web of Things, IMC-AESOP: from the Web of Things to the Cloud of Things.
15	5	Commercial Building Automation: Introduction, Case study: phase one-commercial building automation today, Case study: phase two- commercial building automation in the future.

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**18PIT31 : MOBILE APPLICATION DEVELOPMENT**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Android-Features of Android
2	1	Required Tools -First Android Application
3	1	Debugging application-Publishing Application
4	2	Activities : Styles and Themes, Hiding, Displaying a dialog window
5	2	progress dialog. Linking activities using Intents
6	2	Fragments-Notifications.
7	3	Layouts and views : Screen Layouts

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Orientation-Basic Views, Progress - Bar View
9	3	Picker Views-Listy Views
10	4	Views and Data Persistence: Image Views
11	4	Menus with Views-Web View
12	4	Data Persistence: Saving and Loading user Preferences-Persisting Data to Files.
13	5	Databases and communication: Creating and using Databases
14	5	Content Provider-Creating own Content Providers
15	5	SMS Messaging-Sending Email.

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LESSON PLAN

Name of the Staff	**JOHN BERNARD Z**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**18PITP33 : PRACTICAL III - ANDROID APPLICATION AND WEB DEVELOPMENT USING PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	sample programs using android
2	1	Lab-1. Write android program to change the background of your activity.
3	1	sample programs using android
4	2	Lab 2. Write android program to perform all operations using calculators
5	3	Lab 3. Write android program to change image displayed on the screen
6	4	Lab 4. Write android program to demonstrate action button by implementing on click listener
7	5	Lab 5. Write android program to demonstrate countdown timer application

Cycle	Unit	Topics to be covered / Activity to be carried out
8	6	Lab 6. Write android program to demonstrate layouts in an activity.
9	7	Lab 7. Write android program to display Google Maps in Android.
10	8	Lab 8. Write android program to reading and writing to a file on SD card
11	9	sample programs using android
12	9	9. Write android program to read and write to a SQLite database in Android.
13	10	sample programs using android
14	10	10. Write android program to demonstrate content providers in Android.
15	10	sample programs using android

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LESSON PLAN

Name of the Staff	**ROSELINE R**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**18EPIT34 : DISTRIBUTED OPERATING SYSTEMS**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Distributed Systems, What is a Distributed System?, Software concepts.
2	1	Hard ware concepts.
3	1	Design issues.
4	2	Inter-Process Communication: Communication in Distributed Systems.
5	2	Lay red Protocols, ATM networks.
6	2	The Client – server model, Remote Procedure call, Group communication.
7	3	Synchronization : Synchronization in Distributed System, Clock Synchronization.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mutual Exclusion, Election algorithms.
9	3	Atomic transactions, Deadlocks in Distributed Systems.
10	4	Processor allocation and Real Time Systems: Process and processors in Distributed System threads.
11	4	System Models, Processors allocation, Scheduling in Distributed System.
12	4	Fault tolerance, Real time Distributed System.
13	5	File system and Shared memory: Distributed File Systems, Distributed File System Design, .
14	5	Distributed File System implementation, Trends in Distributed File System.
15	5	Distributed Shared Memory, Introduction.

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**18PIT32 : OPEN SOURCE TECHNOLOGIES**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Building blocks of PHP: Basic syntax - Variables - Data Types - Operators and expressions- Constants. Flow Control: Switch flow- Loops- Code Block
2	1	Sending data to the browser-Working with Arrays: Arrays- Creating array- Array related Functions-Working with Function: Function- Calling Function
3	1	Defining Function- Returning the Values from user defined function- Variable Scope- Argument.
4	2	Working with Strings, Date and Time Functions: Formatting String with PHP- Date and Time Function- String Manipulation and Investigating Strings with PHP
5	2	-Working with Forms: Creating form- Handling form- Validating form data- Accessing form data- use of Hidden fields to save State- Redirecting user- file Upload-Working with Cookies and User Session
6	2	Introduction of Cookie- Setting a Cookie with PHP-Introduction of Session and Improving Session Security- Starting a Session- Working with Session Variables- Passing Session Id in the query String- Destroying Session and Unsetting Variables.
7	3	Error Handling and Debugging: General error types and debugging- displaying PHP errors- Adjusting Error Reporting- Creating Custom error handler- PHP debugging techniques

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Filter: Types of Filter- Functions of Filter- Validate the data with filter option and sanitize
9	3	Working with files: Include Files with INCLUDE- creating and deleting files- opening a file for reading- writing or Appending- Reading from files- Validating Files.
10	4	Working with Directories: Directory related function- $DIR object in PHP-Working with Images: Image related function- Miscellaneous function
11	4	Introduction To OOP: The basic- auto loading objects- Class- Extends- Constructs- Scope Resolution Operator- Parent- serializing object- The magic objects sleep and awake- reference inside the constructor
12	4	comparing objects- Visibility- overloading- object interface- pattern- magic method.
13	5	Learning Basic SQL Command: Table Creation- Insert row- Select Command Using Where Clause- Update and Delete Command- Replace Command- String Function
14	5	Date and Time Functions- Stored Procedures- Join- Indexing and Sorting query-Using MySQL with PHP
15	5	Connecting to MySQL and selecting the database- executing simple queries- retrieving query results- counting return Records- updating- Record Addition- Viewing Record- and Deletion Record with PHP.

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LESSON PLAN

Name of the Staff	**ANAND CHRISTY S**	Academic Year	**2023-2024**
Department	**Computer Applications**	Semester	**3**
Subject	**18JPIT33 : PROJECT: ANDROID APPLICATION AND WEB DEVELOPMENT USING PHP**	Course	**Computer Applications**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	simple php programs
2	1	String and Date functions in PHP.
3	1	String and Date functions in PHP.
4	2	Form creation using POST method
5	2	Database Operations using mysql.
6	2	Database Operations using mysql.
7	3	Login form using session.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Class and Object in PHP.
9	3	Student mark list creation with validation.
10	4	Electricity bill preparation.
11	4	Develop a simple online shopping cart.
12	4	Develop a simple online shopping cart.
13	5	Develop a simple bank application.
14	5	Develop a simple bank application.
15	5	Develop an application for employee pay slip.

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**PMT704S : CLASSICAL MECHANICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The Mechanical system -
2	1	Generalised coordinates - Constraints -
3	1	Virtual work - Energy and Momentum
4	2	Derivation of Lagrange's equations-
5	2	Examples
6	2	- Integrals of motion.
7	3	Hamilton's Principle -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Hamilton's Equation -
9	3	Other variational principle.
10	4	Hamilton Principle function
11	4	Hamilton-Jacobi Equation
12	4	Separability
13	5	Differential forms and generating functions
14	5	- Special Transformations -
15	5	Lagrange and Poisson brackets.

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LESSON PLAN

Name of the Staff	**VIRGIN RAJ A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**PMT807 : MEASURE THEORY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Outermeasure–Definition&properties
2	1	Lebesguemeasure-measurable sets-properties
3	1	non-measurable-set-measurable functions-Little wood's three principle.
4	2	Lebesgue Integral of simple function bounded measurable function –of a non negative function
5	2	Fatou's lemma-monotone convergence therorem
6	2	General Lebesgue integral -Lebesgue convergence in measure.
7	3	Differetiation of monotone functions Vitali's lemma-Integral of derivative

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Functions of bounded variation Differentiation of an integral – absolute continuity
9	3	convex functions-Jensen's inequality.
10	4	Measure spaces –Measurable functions
11	4	Integration-Signed measure
12	4	Hahn decomposition theorem.
13	5	Outer measure Measurability
14	5	extension theorem-product measures
15	5	Fubini's theorem-Tonnelli's theorem.

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LESSON PLAN

Name of the Staff	**VIRGIN RAJ A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**PMT702S : REAL ANALYSIS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction ,Properties of monotonic functions,Functions of bounded variation
2	1	Total variation, Additive property of total variation ,Total variation on [a, x] as a function of x
3	1	Functions of bounded variation expressed as the difference of two increasing functions, Continuous functions of bounded variation.
4	2	Introduction , Notation,The definition of the Riemann - Stieltjes integral ,Linear Properties ,Integration by parts
5	2	Change of variable in a Riemann -Stieftjes integral , Reduction to a Riemann Integral - Euler's summation formula, Monotonically increasing integrators, Upper and lower integrals
6	2	Additive and linearity properties of upper and lower integrals, Riemann's condition - Comparison theorems.
7	3	Integrators of bounded variation-Sufficient conditions for the existence of Riemann-Stieltjes integrals,Necessary conditions for the existence of Riemann-Stieitjes integrals, Mean value theorems for Riemann - Stieltjes integrals

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	- The integrals as a function of the interval , Second fundamental theorem of integral calculus
9	3	Change of variable in a Riemann integral,Second Mean Value Theorem for Riemann integral
10	4	Infinite Series :Absolute and conditional convergence ,Dirichlet's test and Abel's test ,Rearrangement of series
11	4	Riemann's theorem on conditionally convergent series. Double sequences , Double'series ,Rearrangement theorem for double series
12	4	A sufficient condition for equality of iterated series ,Multiplication of series - Cesaro summability.
13	5	Point-wise convergence of sequences of functions , Examples of sequences of real - valued functions,Definition of uniform convergence , Uniform convergence and continuity
14	5	The Cauchy condition for uniform convergence ,Uniform convergence of infinite series of functions ,Uniform convergence and Riemann - Stieltjes integration
15	5	Non-uniform Convergence and Term-by-term Integration, Uniform convergence and differentiation, Sufficient condition for uniform convergence of a series,Mean convergence.

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**EPMT705T : MATHEMATICAL PROGRAMMING**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Integer linear programming, all integer linear programming, mixed integer linear programming, zero one integer linear programming, branch and bound method, gomory's cutting plane method
2	2	Dynamic programming problems-dynamic programming terminology, Multifilicative separable return functions with respect to single additive constraints, Additive separable return functions with respect to single additive constraints,
3	1	Mixed integer programming problem, zero-one integer programming problem
4	1	Solving integer linear programming problem by using Branch and bound method
5	2	Additive separable return functions and multiplicative constraints
6	2	Dynamic programming approach to solve linear programming problem
7	3	The general non linear programming problem, graphical solution method

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Quadratic programming problem-wolfe's modified simplex method
9	3	Quadratic programming problem-Beal's method
10	4	Theory of simplex method, canonical and standard form of LP problem
11	4	Slack and surplus variables, Reduction of feasible solution to a basic feasible solution
12	4	Improving a basic feasible solution, alternative optimal solution, unbounded solution, Optimality conditions
13	5	Revised simplex method-standard form of revised simplex method,
14	5	Computational procedures for revised simplex method,
15	5	Comparison of simplex method and revised simplex method

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**PMT809T : FLUID DYNAMICS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Fluid Dynamics, Real and ideal fluid,
2	1	Viscous and inviscous Flow, sources and sinks, local rate of change of partical
3	1	Equations of continuity- Worked examples- Acceleration of a fluid – Conditions at a rigid boundary.
4	2	Pressure at a point in a fluid at rest – Pressure at a point in a moving fluid
5	2	Conditions at a boundary of two inviscid immiscible fluids – Euler's equation of motion – Bernoulli's equation
6	2	worked examples- Discussion of the case of steady motion under conservative body forces.
7	3	SOME THREE DIMENSIONAL FLOWS:Introduction – Sources,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Sinks, and doublets – Image in a rigid infinite plane
9	3	Axis symmetric flows.
11	4	Irrotational incompressible flow- Complex velocity potentials for standard two dimensional flows
12	4	Some worked examples- Two dimensional Image systems- The Milne Thompson circle Theorem.
13	5	Stress components in a real fluid – Relations between Cartesian components of stress – Translational motion of fluid elements-
14	5	The rate of strain quadric and principal stresses- some further properties of the rate of strain quadric – Stress analysis in fluid motion- Relation between stress and rate of strain
15	5	The coefficient of viscosity and Laminar flow – The Navier – Stokes equations of motion of a Viscous fluid.
10	4	Two Dimensional in compressible motion

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**1**
Subject	**PMT701 : Algebra - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Another counting principle.
2	1	Another counting principle.
3	1	Cauchys theorem
4	1	Sylow's Theorem I proof
5	2	Sylow's Theorem II proof
6	2	Sylow's Theorem III proof
7	3	Direct Products,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	, Finite Abelian groups
9	3	, Finite Abelian groups
10	4	Canonical Forms: Triangular forms
11	4	Nilpotent Transformations
12	4	A Decomposition of V, Jordan form
13	5	Rational Canonical Form
14	5	Triangular form
15	5	Trace and Transpose

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**2**
Subject	**PMT806S : ALGEBRA - II**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Finite Extension
2	1	Algebraic Extension
3	1	Theorems on Extension field
4	2	Isomorphism of Extension field
5	2	Theorems on Extension field
6	2	Splitting field
7	3	More about roots

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Theorems and Definitions
9	3	F(a,b)=F(c) prove
10	4	Solvablity by Radicals
11	4	Theorems on solvablity
12	4	Wedderburn's Theorem
13	5	Integral Quarternious and Four Square theorems
14	5	Theorems and Definitions I.Q
15	5	Theorems on Four Square

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LESSON PLAN

Name of the Staff	**Dr. J. Jon Arockiaraj**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**PMT1017 : FUNCTIONAL ANALYSIS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BANACH SPACES: Definition - examples-continuous linear transformation.
2	1	The Hahn-Banach theorem-the natural embedding of N* in to N**
3	1	open mapping theorem-conjugate of an operator.
4	2	Hilbert Space- Definition– examples
5	2	simple properties
6	2	orthogonal complements-orthonormal sets
7	3	conjugate space H* -ad joint of an operator

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	self ad joint operators
9	3	normal and unitary operators- Projections
10	4	FINITE DIMENSIONAL SPECTRAL THEORY: Matrices
11	4	Determinants and the spectrum of an operator
12	4	The spectral theorem-A survey of the situation
13	5	GENERAL PRELIMINARIES ON BANACH ALGEBRAS: Definition – examples
14	5	regular and singular elements- Topological divisors of zero
15	5	The spectrum- The formula for spectral radius- The radical and semi-simplicity.

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LESSON PLAN

Name of the Staff	**Dr. J. Jon Arockiaraj**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**PMT912S : TOPOLOGY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	The definition and some examples-Open sets-Closed sets
2	1	Convergence , completeness ,and Baire' s theorem
3	1	Continuous mappings-Spaces of continuous functions-Euclidean and unitary spaces
4	2	The definition and some examples-
5	2	Elementary concepts-Open bases and open subbases-
6	2	Weak topologies-The function algebras l(X,R) and l(X,C)
7	3	Compact spaces-Products of spaces

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	-Tychonoff's theorem and locally compact spaces-
9	3	Compactness for metric spaces-Ascoli's theorem
10	4	: T1-spaces and Hausdorff spaces-
11	4	Completely regular spaces and normal spaces-Urysohn's lemma and the Tietze extension theorem-
12	4	The Urysohn imbedding theorem- The Stone-Cech compactification
13	5	Connected spaces-The components of a space
14	5	-Totally disconnected spaces-Locally connected spaces-
15	5	The Weierstrass approximation theorem and revision

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON SAVARIMUTHU S**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**PMT1019T : PARTIAL DIFFERENTIAL EQUATIONS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Partial Differential Equations of First order Formation of Partial differential Equation
2	1	Solution of Partial Differential Equations of First order - Integral Surfaces passing through a given curve - The Cauchy Problem for First Order Equations -
3	1	- Integral Surfaces passing through a given curve - The Cauchy Problem for First Order Equations - Compatible System of First Order Equation - Charpit's Method
4	2	Introduction - Classification of Second Order PDE
5	2	Introduction - Classification of Second Order PDE
6	2	Canonical Forms - Adjoint Operators - Riemann's Method
7	3	Occurrence of the Laplace and Poisson Equation – Boundary Value Problem (BVPs)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Separation of Variables – Dirichlet Problem for a rectangle – Interior Dirichlet Problem for a circle
9	3	Exterior Dirichlet Problem for a circle – Miscellaneous Examples
10	4	Occurrence of Diffusion Equation – Boundary Condition
11	4	Elementary solution for the Diffusion Equation – Dirac Delta Function
12	4	Separation of Variable method - Miscellaneous Examples
13	5	Occurrence of Wave Equations – Derivation of One dimensional Wave Equation – Solution of One dimensional Wave Equation by Canonical Reduction
14	5	The Initial value Problem; D' Alembert's Solution – Vibrating String – Variable Separable Solution – Forced Vibrations – Solution of Non-homogeneous Equation
15	5	Boundary and Initial Value Problem for Two-dimensional Wave-Periodic Solution of One-dimensional Wave Equation in Cylindrical Coordinates – Miscellaneous Examples

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LESSON PLAN

Name of the Staff	**JETHRUTH EMELDA MARY L**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**4**
Subject	**EPM1020 : GRAPH THEORY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Paths and connection, cycles, The shortest path problem
2	1	Spernes lemma, Trees, cut edges and bonds, cut vertices
3	2	Trees, Cayley's formula, The connector problem
4	2	Connectivity
5	2	,Blocks, Construction of communication network.
6	3	Euler Tours,The Chinese Postman problem.
7	3	Hamilton Cycles, The travelling salesman Problem.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Properties of Euler and Hamilton graphs.
9	3	Revised some of the important theorems and discussed application part of it.
10	4	Edge chromatic number, Vizing's Theorem
11	4	The time tabling problem. Independent set and covering set.
12	4	Rames'y Theorem
13	5	Vertex colouring, Brook's theorem, Hajose conjecture
14	5	Planar graph-properties,
15	5	Dual graph and its property

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LESSON PLAN

Name of the Staff	**Dr.VENKATESAN A**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**PMT913S : DIFFERENTIAL GEOMENTRY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of space curve , Arc length , Tangent,.
2	1	normal and Binormal ,Curvature and torsion. Contact between curves and surfaces
3	1	Tangent surfaces , Involutes and Evolutes.
4	2	Intrinsic equations , Basic Properties
5	2	Fundamental existence theorem for space curves – Helices.
6	2	Definition of a surface – curves on a surface - Surface of revolution
7	3	Helicoids, Metric .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Direction coefficients – Family of curves – Isometric correspondence.
9	3	Intrinsic properties. Revision for Unit I, Unit II, Unit III
10	4	Geodesics – Canonical geodesic equations.
11	4	Normal property of geodesics – Existence theorems- Geodesic parallels .
12	4	Geodesics curvature – Gauss Bonnet theorem
13	5	The second fundamental form, Principal curvature
14	5	Lines of curvature – Developable
15	5	Developable associated with space curves , Revision for Unit 4 and Unit 5.

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LESSON PLAN

Name of the Staff	**PADMA PRIYA R**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**PMT914Q : NUMBER THEORY AND CRYPTOGRAPHY**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to the number theory Time estimates for doing arithmetic
2	1	Divisibility and Euclidean algorithm Congruences
3	1	Some application to factoring
4	2	Generator Cyclic group
5	2	Quadratic residue and reciprocity
6	3	Enryption and decryption
7	3	Enryption matrix

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	RSA algorithm
9	3	Diffie hellman key exchange
10	4	Pseudoprime Euler pseudoprime
11	4	Strong pseudoprime Miller Rabin test
12	4	Rho method Factor base
13	5	Quaradraic sieve method Pollard's p-1 method
14	5	Lenstra's method Examples Proposition
15	5	Fermat factorisation method Examples

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LESSON PLAN

Name of the Staff	**KALAIMATHI M**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**PMT911 : COMPLEX ANALYSIS - I**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Conformality Arcs and closed curves Analytic functions in regions Conformal mapping
2	1	Length and area Linear transformation Linear group Cross ratio
3	1	Symmetry Oriented circles Families of circles
4	2	Use of level curves A survey of Elementary mapping Elementary riemann surfaces
5	2	Line integral Rectifiable arc Line integrals as function of arcs
6	2	Cauchy theorem for a rectangle Cauchy theorem in a disk
7	3	The index of the point with respect to a closed curve The integral formula Higher derivatives

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Singularities Taylor theorem Zeros and poles
9	3	Local mapping Maximum principle
10	4	Chain and cycles Simple connectivity Homology
11	4	General statement of cauchy theorem Proof of cauchy theorem Locally exact differential
12	4	Multiply connected region Residue theorem The argument principle
13	5	Evaluation of definite integrals Harmonic frnction:definition
14	5	Basic property Mean value property Poisson formula
15	5	Schwartz theorem Reflection principle

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LESSON PLAN

Name of the Staff	**ANJAL MOSE S Dr.**	Academic Year	**2023-2024**
Department	**Mathematics**	Semester	**3**
Subject	**EPMT915 : FUZZY SUBSETS AND ITS APPLICATIONS**	Course	**Mathematics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Review of the notion of membership,Concept of fuzzy subsets
2	1	Dominance relation-Simple operation, Set of fuzzy subsets for E and M finite-Properties of fuzzy subsets
3	1	Product and algebraic sum of two fuzzy subsets-problems.
4	2	Fuzzy graphs ,Fuzzy relation
5	2	Composition of Fuzzy relation ,Fuzzy subsets induced induced by the mapping
6	2	Conditioned fuzzy subsets,Properties of fuzzy binary relation, Transitive closure , Paths in finite Fuzzy graphs,Problems .
7	3	Fuzzy Preorder relation ,Similitude, Similitude sub relation ,Anti symmetry

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Fuzzy order relation ,Anti-symmetry relations without loops,Ordinal relations,Ordinal functions
9	3	Dissimilitude ,Resemblance ,Properties of Similitude and Resemblance ,Properties of Fuzzy perfect order relation
10	4	Characteristic functions of a fuzzy subsets
11	4	Fuzzy variables ,Polynomial forms ,Analysis of function of Fuzzy variables
12	4	Method of marinos ,Logical structure.
13	5	Applications of fuzzy subsets in the field of Engineering
14	5	Applications of fuzzy subsets in the field of Medical
15	5	Applications of fuzzy subsets in the field of Economics and Soft Computers

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LESSON PLAN

Name of the Staff	**PARIMALA CELIA M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**EPMB705T : METHODS IN BIOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UV visible and Fluorescence spectroscopy
2	1	circular dichroism
3	1	NMR andv ESR spectroscopy
4	2	Structure determination using Xray diffraction and NMR
5	2	Light scattering, Mass spectrometry
6	2	Surface plasma resonance methods
7	3	Properties of radio isotopes,, their detection and measurement

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	incorporation of radio isotopes in tissues and cells
9	3	molecular imaging of radio isotopes, Safety guidelines
10	4	Single neuron recording, Patch clamp recording, ECG
11	4	Brain activity recording, lesion and stimulation of brain
12	4	PET, MRI, fMRI and CAT
13	5	Estimating population density of plants and animals
14	5	sampling methods in the study of behaviour, habitat characterization
15	5	ground and remote sensing methods

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LESSON PLAN

Name of the Staff	**PARIMALA CELIA M Dr.**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**2**
Subject	**EPMB810T : RESEARCH METHODOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Research-Definition-Experimental designs
4	2	Literature collection-Literature citation-Major search engines
2	1	Identification selection and formulation of research problems
3	1	Research question, Research hypothesis
7	3	Components of research report, Authors, Abstract, Synopsis
8	3	Introduction, Materials and methods, Result and Discussion
5	2	Major websites, Book and scientific information

Cycle	Unit	Topics to be covered / Activity to be carried out
6	2	Journals, Impact factor
9	3	Acknowledgements, Summary, Conclusion, Appendix, References, Tables, Figures, Formatting and Typing
10	4	Biological research-Institutional ethical committee
11	4	Animal ethical committee
12	4	Use of lab animals in research-Lab animal management
13	5	pH- Buffers- Electrodes - Biosensors
14	5	Bradford assay- protein-Lowry method- Lipid-Soxhlet method
15	5	Nucleic acid-Spectrophotometry- Techniques for sample preparation

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LESSON PLAN

Name of the Staff	**SWAMINATHAN C Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**1**
Subject	**PMB703S : MOLECULAR BIOLOGY AND MICROBIAL GENETICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Nucleic acids - components of nucleic acids - the double helix - denaturation and melting curves - renaturation - circular and superhelical DNA
2	1	RNA - types and structure - nucleases - methods used to study macromolecules
3	1	Isolation of nucleic acids - determination of the base sequence of DNA - chemical and physical structure of a polypeptide chain
4	2	DNA replication - basic rule for replication of all nucleic acid - the geometry of DNA replication - enzymology of DNA replication - discontinuous replication - bidirectional replication - rolling replication
5	2	DNA damage and repair - biological indications of damage to DNA - biological indication of repair - biochemical mechanisms for repair of thymine - mutation and mutants - isolation of mutants - genetic analysis of mutants - mutagenesis - reversion - suppr.
6	2	Plasmids - types - detection of plasmids - purification of plasmid DNA - transfer of plasmid DNA - plasmid replication - partitioning of plasmid replicas at cell division - properties of particular bacterial plasmids
7	3	Insertion sequences - detection of transposition in bacteria - types of bacterial transposons - transposition

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Transcription - messenger RNA - Translation - the genetic code - overlapping genes - polypeptide synthesis - complex translational units
9	3	Regulation of gene expression - common modes of regulation - E.coli lactose system and the operon model - tryptophan operon, a biosynthetic system, autoregulation
10	4	Discovery of transformation, detection of transformation - competence - DNA uptake
11	4	Molecular mechanism of transformation - mapping by transformation
12	4	Bacterial conjugation - Hfr transfer, recombination in recipient cells - properties of systems lacking recombination proteins - the RecA, B, C proteins and their functions - chromosome transfer in bacteria other than E.coli
13	5	Bacteriophages - General properties, life cycle - counting phage - properties of a phage - infected bacterial culture - specificity in phage infection. Host restriction and modification. Phage T4 - phage mutants, genetic mapping of phage T4, features of .
14	5	Phage lambda - DNA and its gene organisation, outline of the life cycle of lambda, DNA replication and phage production, recombination in the lambda life cycle.
15	5	Lysogeny - immunity and repression - lysogenization and prophage insertion - prophage excision - polylysogeny. Transduction - cotransduction and linkage - properties of specialised transducing particles.

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LESSON PLAN

Name of the Staff	**JOSEPH CHRISITAN DANIEL S Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**PMB914S : BIOINFORMATICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Historical introduction and overview – Databases – Formats
2	1	Sequence analysis – Alignment of pairs of sequences – Multiple sequence alignments – Phylogenetic tree
3	1	Database searching for similar sequences – Scoring matrices – BLAST Gene prediction – Methods – Protein structure prediction
4	2	Comparative Genomics: Purpose and Methods of comparison, Tools for genomic comparison
5	2	Applications of Comparative Genomics, Reconstruction of metabolic pathway, Predicting regulatory elements, Identifying targets, examination of domain function, analysis of conserved strings
6	2	Genome projects and Model Organism research -Yeast; Drosophila; C. elegans; and Mouse – a comparative analysis. Comparative genomics as an aid to gene mapping and in the study of human diseases
7	3	Functional Genomics: Gene expression analysis by cDNA micro arrays, SAGE

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Strategies for generating ESTs and full length inserts; EST clustering and assembly; EST databases (DBEST, UNIGENE)
9	3	Expression and regulation of entire set of genes, Sporulation Vs Vegetative condition in yeast and Bacillus
10	4	Proteomics – Protein Classification – Experimental techniques (2D Electrophoresis, Mass Spectrophotometry, Protein Micro arrays)
11	4	Ligand Screening – X ray crystal structure – NMR structures – Post translational modification prediction
12	4	Functional Proteome Analysis: Integrated Proteome Analysis - Phage antibody as tool, Protein expression analysis, High throughput analysis for proteomics
13	5	Introduction to pharmacogenomics, process of drug development-clinical trials phase I, II and III
14	5	Pharmacogenomics in the treatment of cancer, neurodegenerative diseases, cardiovascular diseases. Pharmacogenomics in pharmaceutical industry
15	5	Ethical issues related to Pharmacogenomics and ethanopharmacology, Benefits of Pharmacogenomics

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LESSON PLAN

Name of the Staff	**MERCY ANTHONY**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**EPMB911Q : BIOSTATISTICS**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Collection of data: Primary data and Secondary data – meaning – Data collection methods .
2	1	Measures of central tendency: Arithmetic Mean, Median, Mode.Measures of Dispersion: Range, Quartile Deviation
3	1	Mean Deviation, Standard Deviation and Coefficient of Variation.
4	2	Correlation analysis: Karl Pearson's, Spearman's rank
5	2	and Concurrent deviation methods.
6	2	Regression Analysis: Simple regression equations.
7	3	Sampling theory: types of sampling – Sampling and non sampling error

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Advantages and disadvantages in sampling
9	3	Probability and non-probability sampling methods.
10	4	Concept of Sampling distributions – Standard Error – Tests of Significance based on t
11	4	Chi –Square and F distributions with respect of Mean, Variance and Correlation coefficient.
12	4	Large sample tests based on Proportions, Mean, Variance and Correlation coefficient.
13	5	Analysis of Variance – One way classifications
14	5	Two way classifications. Basic principles of design of experiments: Randomization, Replication and Local Control
15	5	CRD, RBD and LSD.

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LESSON PLAN

Name of the Staff	**SUMITHA D Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**3**
Subject	**PMB913S : MICROBIAL TECHNOLOGY**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Biofertilizers : Symbiotic nitrogen fixers: Rhizobium - Isolation, characterization, identification, Classification, inoculum production and field application - Frankia - Isolation, characterization – actinorrhizal nodules
2	1	non-leguminous crop symbiosis – Cyanobacteria - Azolla – Isolation, characterization, mass multiplication – Role in rice cultivation – Crop response – field application - immobilization
3	1	Non–Symbiotic nitrogen fixers – Azospirillum - Azotobacter – Cyanobacteria - isolation, characterization, mass inoculum production and field application
4	2	Plant Growth Promoting Bacteria: Phosphate solubilizing microbes – Isolation characterization, mass inoculum production, field application – Phosphate solubilization mechanism. - Mycorrhiza bioinoculants
5	2	classification – importance of mycorrizal Ectomycorzhizae – Endomycorrhizae – Ectendo mycorrhizae – Taxonomy of mycorrhizae
6	2	Isolation of VA mycorrhizae – Quantification and assessment of VAM in roots – Mass inoculum production of VAM – field applications of Ectomycorrhizae and VAM
7	3	: Bioremediation of contaminated soils and wastelands. Biodegradation of xenobiotics; Ecological considerations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	oil pollution, surfactants, hydrocarbons, substituted hydrocarbons, heavy metals, pesticides
9	3	herbicides - Microbes in mining, oreleaching, oil recovery - Biodegradation of noncellulosic waste for environmental conservation.
10	4	Biopolymer and Biomass production: Microbial production of carbohydrates (PHAs, higher alkanes and methanol)
11	4	Biopesticides (Bacillus thuringiensis, Pseudomonas, Trichoderma, NPV)
12	4	Biosensors: Types and Applications. Role of microorganisms in Nanotechnology
13	5	Designing of microbiology laboratory – Quality assessment of Equipments, chemicals, glass wares and laboratory environments
14	5	Quality control of media and stains - Quality assurance – Overview – Definition - Quality management – Maintenance of records and reports
15	5	Quality assurance in sterilization and disinfection - Quality assessment of disposal – Biological references and standards - Good laboratory practices – Management of laboratory hazards

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LESSON PLAN

Name of the Staff	**SUMITHA D Dr**	Academic Year	**2023-2024**
Department	**Micro Biology**	Semester	**4**
Subject	**PMB1015S : GENETIC ENGINEERING**	Course	**Micro Biology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	DNA sequencing by the Maxam and Gilbert method, Sequencing by the chain-terminator or dideoxy procedure
2	1	Automated sequencing, Pyro sequencing,
3	1	Third generation sequencing: Solexa and Illumina.
4	2	Polymerase Chain Reaction – Introduction, Components, Variations in PCR (Multiplex, RAPD, Inverse PCR), Amplification, Specificity, Cloning PCR products, Applications
5	2	Site Directed Mutagenesis - Cassette mutagenesis, Primer extension: the single-primer method,
6	2	PCR methods of site directed mutagenesis, Construction of genes for chimaeric proteins, Random mutagenesis.
7	3	Plant Transgenics - Agrobacterium and genetic engineering in plants (Ti-plasmid, Disarmed Ti-plasmid derivatives as plant vectors)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Binary Ti-vectors, A.rhizogenes and Ri plasmids, DNA – mediated transfection of plant protoplasts
9	3	Micro projectiles for transfecting living cells: biolistics, Plant viruses as vectors.
10	4	Animal Transgenics – Viral Vectors, Reporter genes,
11	4	Co-transfection (Co-transformation), Integration of DNA into the genome of mammalian cells,
12	4	Other transformation techniques, High-level expression of foreign genes in animal cells.
13	5	Applications of Recombinant DNA Technology - Recombinant DNA technology and the new diagnostics, Generation of novel proteins (Recombinant Insulin)
14	5	protein engineering, Genetically Modified Organisms – Microorganisms (Super Bug) – Plants (Bt cotton)
15	5	– Food (Golden Rice, Edible Vaccines) – Animals (Dolly).

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**18PPH12 : MATHEMATICAL PHYSICS - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Physical examples of Vectors and Matrices - Linear equations - Linear combinations - linear independence - Vector spaces: real and complex - subspace, basis, dimension, intersection -
2	1	Linear transformations - Inner product, norm, right triangles - Orthogonality, orthogonal complement - Cauchy-Schwarz inequality - Orthonormal basis - Gram-Schmidt orthogonalization
3	1	- Transformation of vectors and matrices under change of basis - Similarity or general linear transformations - completeness relation
4	2	Complex variable theory - Single and multivalued functions - -
5	2	The Cauchy-Riemann differential equations - Cauchy's integral theorem and integral formula
6	2	Residue and Cauchy's residue theorem - Lioville's theorem – Applications of the evaluation of definite integrals
7	3	Fourier series - arbitrary period – Dirichlet conditions – Half-wave expansions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Parseval's theorem - Fourier integral and transforms - Fourier Sine and Cosine transformation.
9	3	Laplace transform - first and second shifting theorems - Inverse Laplace transforms - Laplace transformation for solving differential equations of a function.
10	4	Linear ordinary differential equations of first order and second order – Degree of ordinary differential equations.
11	4	Linear differential equation - General solution and particular solution – Method of solution
12	4	Higher order differential equation – Homogeneous linear differential equation – Linear differential equation of second order.
13	5	Gamma and beta functions - Legendre, Bessel, Hermite and Laguerre equations - Generating functions -
14	5	Legendre, Bessel, Hermite and Laguerre equations , Series solution
15	5	Recurrence relations for Legendre, Bessel, Hermite and Laguerre equations - Physical applications

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PPHP12B : ELECTRONICS PRACTICAL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	FET Characteristics and amplifier design Design of a Regulated Power Supply using IC7805. Design full adder and full subtractor and verify its truth table using NAND gates. Design full adder and full subtractor and verify its truth table using NOR gates.
2	2	FET Characteristics and amplifier design Design of a Regulated Power Supply using IC7805. Design full adder and full subtractor and verify its truth table using NAND gates. Design full adder and full subtractor and verify its truth table using NOR gates.
3	3	FET Characteristics and amplifier design Design of a Regulated Power Supply using IC7805. Design full adder and full subtractor and verify its truth table using NAND gates. Design full adder and full subtractor and verify its truth table using NOR gates.
4	4	FET Characteristics and amplifier design Design of a Regulated Power Supply using IC7805. Design full adder and full subtractor and verify its truth table using NAND gates. Design full adder and full subtractor and verify its truth table using NOR gates.
5	5	FET Characteristics and amplifier design Design of a Regulated Power Supply using IC7805. Design full adder and full subtractor and verify its truth table using NAND gates. Design full adder and full subtractor and verify its truth table using NOR gates.
6	6	FET Characteristics and amplifier design Design of a Regulated Power Supply using IC7805. Design full adder and full subtractor and verify its truth table using NAND gates. Design full adder and full subtractor and verify its truth table using NOR gates.
7	7	Construct an astable multivibrator using transistor. Design 4 bit shift register using JK Flip flop. Design multiplexer/demultiplexer. Op-amp – Inverting, non-inverting amplifier – Voltage follower- summing, difference, average amplifier – differe...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Construct an astable multivibrator using transistor. Design 4 bit shift register using JK Flip flop. Design multiplexer/demultiplexer. Op-amp – Inverting, non-inverting amplifier – Voltage follower- summing, difference, average amplifier – differe...
9	9	Construct an astable multivibrator using transistor. Design 4 bit shift register using JK Flip flop. Design multiplexer/demultiplexer. Op-amp – Inverting, non-inverting amplifier – Voltage follower- summing, difference, average amplifier – differe...
10	10	Construct an astable multivibrator using transistor. Design 4 bit shift register using JK Flip flop. Design multiplexer/demultiplexer. Op-amp – Inverting, non-inverting amplifier – Voltage follower- summing, difference, average amplifier – differe...
11	11	Construct an astable multivibrator using transistor. Design 4 bit shift register using JK Flip flop. Design multiplexer/demultiplexer. Op-amp – Inverting, non-inverting amplifier – Voltage follower- summing, difference, average amplifier – differe...
12	12	Construct an astable multivibrator using transistor. Design 4 bit shift register using JK Flip flop. Design multiplexer/demultiplexer. Op-amp – Inverting, non-inverting amplifier – Voltage follower- summing, difference, average amplifier – differe...
13	13	Formula test
14	14	Model Practical I
15	15	Model practical II

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**18PPH23 : QUANTUM MECHANICS - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inadequacy of classical mechanics Evolution of Quantum Mechanics Postulates of quantum mechanics Equation of continuity
2	1	Erhenfest's theorem Operator formalism Linear operators self adjoint operators
3	1	Expectation value stationary state Hermitian operators for dynamical variables eigen values and functions orthonormality commutation relations.
4	2	Applications of Quantum Mechanics One dimensional problems Wells; Infinite square and finite square well
5	2	One dimensional problems Infinite square and finite square barriers Rectangular barrier
6	2	Harmonic Oscillator by Schrödinger equation and operator method (I&III D) Rigid rotator Hydrogen Atom.
7	3	Angular momentum operator commutation rules Eigen value spectrum

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Ladder Operators Momentum Eigen values and Eigen function
9	3	L2 Operators Eigen values and Eigen function Spin matrices and wave function- combination of two angular momentum Clebsh Gordon coefficients.
10	4	Perturbation theory Non degenerate and degenerate cases removal of degeneracy
11	4	application to ground state of anharmonic oscillator Variation method Hydrogen Molecule
12	4	Zeeman and Stark effects WKB approximation
13	5	The Klein-Gordon equation- probability density and current density The Dirac's equation and Dirac's matrices Plane wave solutions of the Dirac's equation
14	5	Spin as an inherent property of an electron Covariant form of Dirac's equation
15	5	Gamma matrices and their properties Positive and negative energy states and Dirac's explanation.

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**18PPHP22 : ELECTRONICS PRACTICAL - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
2	2	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
3	3	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
4	4	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
5	5	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
6	6	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
7	7	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
9	9	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
10	10	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
11	11	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
12	12	IC 555 – Monostable multivibrator, frequency divider D/A converter using comparator R-2R ladder network. Shift registers Schmitt trigger Phase shift oscillator using Op-amp. Logic Simplification With Karnaugh Maps Implementation of 4-bit parallel adde...
13	13	Formula test
14	14	Model Practicals I
15	15	Model Practicals II

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LESSON PLAN

Name of the Staff	**SATHISH M**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**EPPH14B : ELECTRONIC DEVICES & APPLICATIONS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	fabrication of IC- monolithic IC fabrication- IC pressure transducer- monolithic RMS- voltage measuring device- monolithic voltage regulators.
2	1	Integrated circuit multipliers - Integrated circuit logic - Schottky TTL - ECL - I2L -
3	1	P and N-MOS Logic - CMOS Logic- Tristate logic circuits – PLA, PLC and PLD.
4	2	Light sources and Displays - Light emitting diodes - Surface emitting LED - Edge Emitting LED -
5	2	Seven segment display - LDR - Diode lasers - Photo detectors - Basic parameters - Photodiodes
6	2	- p-i-n Photo diode - Solar cells - Photo transistors - IR and UV detectors.
7	3	Transit time devices: IMPATT diode – QWITT diode – TRAPATT diode - Gunn diode -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	The transferred electron mechanism – Formation and drift of space charge domains -
9	3	modes of operation in resonance circuit - Fabrication and applications.
10	4	OSCILLOSCOPE AND OTHER MEASURING INSTRUMENTS -Introduction - Cathode Ray Tube—Theory and Construction - Cathode Ray Oscilloscope Operation - Voltage Sweep Operation
11	4	Synchronization and Triggering - Multitrace Operation - Measurement Using Calibrated CRO Scales
12	4	Special CRO Features - Signal Generators
13	5	COMMUNICATION ELECTRONICS Local Loop, PSTN, ISDN, digital exchanges, satellite communication and VSAT
14	5	, W ireless communication technologies: spread spectrum techniques, OFDM,
15	5	Cellular phones, 3G wireless, IP telephony, Bluetooth, IrDA, CDMA.

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LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**18PPH13 : ELECTROMAGNETIC THEORY**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Laplace and Poisson equations – Boundary value problems - boundary conditions and uniqueness theorem – Laplace equation in three dimensions–
2	1	Solution in Cartesian and spherical polar coordinates – Examples of solutions for boundary value problems - Polarization and displacement vectors - Boundary conditions - Dielectric sphere in a uniform field –
3	1	Molecular polarisability and electrical susceptibility –Langevin Theory of Polar molecules - Electrostatic energy in the presence of dielectric – Multipole expansion.
4	2	Biot-Savart Law - Ampere's circuital law - Magnetic vector potential and magnetic field of a localised current distribution -
5	2	Magnetic moment, force and torque on a current distribution in an external field - Magnetostatic energy
6	2	Magnetic induction and magnetic field in macroscopic media - Boundary conditions - Uniformly magnetized sphere.
7	3	Faraday's laws of Induction - Maxwell's displacement current - Maxwell's equations – free space and linear isotropic media -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Vector and scalar potentials - Gauge invariance - Wave equation and plane wave solution- Coulomb and Lorentz gauges -
9	3	Energy and momentum of the field - Poynting's theorem - Lorentz force - Conservation laws for a system of charges and electromagnetic fields.
10	5	Four vector-Lorentz transformation of space and time in four vector form. -
11	5	Transformation of electromagnetic potentials -
12	5	Maxwell’s equation in covariant tensor form
13	4	Plane waves in non-conducting media - Linear and circular polarization, reflection and refraction at a plane interface-
14	4	Fresnel’s law, interference, coherence and diffraction - Waves in a conducting medium - Propagation of waves in a rectangular wave guide -
15	4	Inhomogeneous wave equation and retarded potentials - Radiation from a localized source - Oscillating electric dipole.

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LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**PPHP11B : GENERAL PRACTICAL - I**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Experiment - I
2	1	Experiment - II
3	1	Experiment - III
4	2	Experiment - IV
5	2	Experiment - V
6	2	Experiment - VI
7	3	Experiment - VII

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Experiment - VIII
9	3	Repetition
10	4	Repetition
11	4	Repetition
12	4	Revision
13	5	Revision
14	5	Revision
15	5	Revision

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LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**2**
Subject	**18PPH22 : MATHEMATICAL PHYSICS - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Tensors Under Generalized Coordinate Transformations - Definition of tensor; rank,
2	2	Definition of groups, subgroups and conjugate classes - Symmetry elements, Transformation, Matrix representation - Point groups - representation of a group - Reducible and irreducible representations - Orthogonality theorem
3	2	character of a representation character Table C2v and C3v – Application to IR and Raman active vibrations of XY3 molecules
4	3	Symmetry rotations SO(2) and SO(3) groups - Symmetry Unitary SU(2) and SU(3) groups.
5	3	Formation of Partial differential equations – elimination of arbitrary constants – elimination of arbitrary functions
6	3	Singular integral – General integral - Standard types of first order equations – Linear Partial Differential equation of Second
7	3	higher order with constant coefficients. One dimensional wave equations, heat equation.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Formation of Partial differential equations – elimination of arbitrary constants –
9	4	elimination of arbitrary functions –Singular integral –
10	4	General integral - Standard types of first order equations – Linear Partial Differential equation of Second and higher order with constant coefficients. O
11	4	ne dimensional wave equations, heat equation.
12	5	Events - Sample Space - Mathematical and Statistical definitions of Probability -
13	5	Random variables – Distribution function – Discrete random variable –
14	5	Continuous random variable – Continuous distribution function –
15	5	Mathematical expectation and variance- Poisson distribution - Normal distribution – Properties of normal distribution – Mean, Median, Mode.

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LESSON PLAN

Name of the Staff	**ELAYA KUMAR K**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**1**
Subject	**18PPH11 : CLASSICAL MECHANICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mechanics of a particle and system of particles – conservation laws – constraints - generalized co-ordinates –
2	1	D'Alembert's principle and Lagrange's equations and Hamilton's principle - Lagrangian equation of motion from Hamilton's principle –
3	1	conservation theorems and symmetry properties-Invariance & Noether's theorem (without proof)-Applications
4	4	Angular momentum – rotational kinetic energy and moment inertia of a rigid body –
5	4	Euler's angle – moments and products of inertia – Eulers' equation
6	4	– Motion of a symmetrical top under the action of gravity.
7	3	Hamilton's canonical equation – proof of principle of least action – general equations of canonical transformations -

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cyclic Co-ordinates- Hamilton - Jacobi differential equation
9	3	– Legrange brackets and Poisson brackets – Action angle variables – the Kepler problem in action angle variable.
10	2	central force motion and small oscillations,reduction of two body problem,orbits of central body problem
11	2	Kepler problem,Runge lenz vector
12	2	Rutherford scaterring scattering cross section,centre of mass and laboratory frames of references,types of penduium.
13	5	Lorentz transformations,real four dimensional spaces,covariant four dimensional formulations
14	5	force and energy equations in relativistic mechanics
15	5	Lagrangian and hamiltonian formulation of relativistic mechanics

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**18EPPH34 : MICROPROCESSOR AND MICROCONTROLLER**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internal architecture of 8086 - Software model - Internal registers - Minimum mode and Maximum mode system - Instruction set - Addressing modes
2	1	Data transfer, Arithmetic, Logical, Shift and rotate instruction
3	1	Compare, Jump, Loop, String, Processor control, CALL - RET and stack instructions - Procedures - Assembler Macros - Assembler directives.
4	2	Linking and relocation – access to external identifiers – procedures
5	2	interrupts and their routines – macros – process management and IRMX86
6	2	semaphore operations – common procedure sharing.
7	3	Programmed I/O – Interrupt I/O – block transfer and DMA – basic 8086 bus configuration

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	minimum and maximum modes – system bus timings – interrupt priority management
9	3	single and multiple 8259
10	4	Introduction – 8 and 16 bit Microcontroller families –Flash series – Embedded RISC Processor
11	4	8051 Microcontroller Hardware – Internal registers – Addressing modes
12	4	Assembly Language Programming – Arithmetic, Logic and Sorting operations.
13	5	Interfacing I/O Ports, External memory, counters and Timers
14	5	Serial data input/output, Interrupts – Interfacing 8051 with ADC, DAC, LED display,
15	5	Keyboard, Sensors and Stepper motor.

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**18PPHP32 : MICROPROCESSOR PRACTICAL - III**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	8-BIT ADDITION 8-BIT ADDITION WITH CARRY
2	2	8-BIT SUBTRACTION 16 BIT ADDITION
3	3	8 BIT MULTIPLICATION 8 BIT DIVISION
4	4	SMALLEST IN ARRAY LARGEST IN ARRAY
5	5	SORTING IN ASCENDING ORDER SORTING IN DESCENDING ORDER
6	6	MICROPROCESSOR 8086 PROGRAMS ADDITION OF TWO BYTES OF DATA SUBTRACTION OF TWO BYTES OF DATA
7	7	MULTIPLICATION OF TWO BYTE DATA DIVISION (2 BYTE/ 1 BYTE)

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	SUM OF N CONSECUTIVE NUMBERS ASCII TO HEX CODE CONVERSION
9	9	BCD TO HEXA DECIMAL CONVERSION HEXA DECIMAL TO ASCII CODE
10	10	MATRIX ADDITION SEPERATING ODD AND EVEN
11	11	FACTORIAL OF A NUMBER FIND THE LARGEST NUMBER IN AN ARRAY
12	12	AVERAGE OF AN ARRAY DESCENDING ORDER
13	13	ASCENDING ORDER ONE'S COMPLEMENT OF A 16-BIT NUMBER
14	14	PROGRAM TEST
15	15	MODEL PRACTICALS

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**18JPPH46 : PROJECT**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Literature survey
2	2	Literature survey
3	3	Searching of the compound
4	4	Searching of the compound
5	5	Purchase of required chemicals
6	6	Synthesis of the compound
7	7	Synthesis of the compound

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Analyzing the characteristics of the compound
9	9	Analyzing the characteristics of the compound
10	10	Interpretation of the properties of the materials under investigation
11	11	Report Writing- Introduction and review of literature
12	12	Report writing- Method of preparation
13	13	Report writing- Results and Discussion
14	14	Correction and Final Report
15	15	Preparing for Viva Voce Examination

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LESSON PLAN

Name of the Staff	**SATHANA V Dr**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**18PPH48 : SKILL BASED SUBJECT (SCIENTIFIC ANALYSIS)**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	CSIR NET PART A Problems solving
2	2	CSIR NET PART A Problems solving
3	3	CSIR NET PART B Problems solving Mathematical Methods of Physics
4	4	CSIR NET PART B Problems solving Classical Mechanics
5	5	CSIR NET PART B Problems solving Electromagnetic Theory
6	6	CSIR NET PART B Problems solving Quantum Mechanics
7	7	CSIR NET PART B Problems solving Thermodynamic and Statistical Physics

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	CSIR NET PART B Problems solving Electronics and Experimental Methods
9	9	CSIR NET PART B Problems solving Atomic & Molecular Physics
10	10	CSIR NET PART B Problems solving Condensed Matter Physics
11	11	CSIR NET PART B Problems solving Nuclear and Particle Physics
12	12	Revision
13	13	Revision
14	14	Revision
15	15	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**18PPH32 : QUANTUM MECHANICS - II**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Transition under constant perturbation - Transition probability -
2	1	Fermi Golden Rule- Harmonic perturbation - Adiabatic and sudden approximations - Schrödinger picture -
3	1	Heisenberg's picture - Interaction picture.
4	3	Symmetric and antisymmetric wave functions –
5	3	collision of identical particles – spin angular momentum – spin functions for a many – electron system
6	3	Slater's determinant – Hartree Fock Method.
7	5	Relativistic Lagrangian and Hamiltonian of a charged particle in an electromagnetic field – Lagrangian and Hamiltonian formulations of fields-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Second quantization of Klein Gordon field – creation and annihilation operators – commutation rules –
9	5	Quantization of electromagnetic and Schrodinger's field.
10	2	Collision in three dimension and scattering- laboratory
11	2	CM reference frames- Scattering Amplitude- Differential scattering cross section- Total scattering cross section-
12	2	Scattering by spherically symmetrical potentials- partial waves and phase shifts- Born's approximation and its validity- square well, Yukawa potential and Rutherford's formula.
13	4	Spontaneous and induced emission of radiation from semi
14	4	classical theory - Einstein's coefficients for induced and spontaneous emission and the relation between them -
15	4	Electric di-pole and forbidden transition- selection rules.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SAGAYARAJ R**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**18PPH41 : NUCLEAR AND PARTICLE PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Liquid drop model- Bohr Wheeler theory fission- Experimental evidence for shell effects- Shell model-Spin orbit coupling- Magic numbers- Angular Momenta and parities of nuclear ground states
2	1	Qualitative discussion and estimates of transition rates- magnetic moments and Schmidt lines- Collective model of Bohr and Mottelson- oblate and prolate deformation of Nucleus.
3	2	Central force and tensor forces- Ground state of deuteron- Magnetic and quadrupole moments- Charge independence and spin dependence of nuclear
4	2	-n-p scattering and p-p scattering at low energies-effective range theory- High energy nucleon- nucleon scattering
5	2	-Exchange forces- Meson theory of nuclear forces.
6	3	Types of reactions and conservation laws- energetics of nuclear reactions- reaction dynamics- – fission explosives - fusion, solar fusion – thermonuclear reactions and weapons.
7	3	Q – value equation- scattering and reaction cross section- compound nucleus- scattering matrix- fission and controlled fission reactions, fission reactors

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	fission explosives - fusion, solar fusion – thermonuclear reactions and weapons.
9	4	Beta decay- Fermi theory of beta decay- Shape of the beta spectrum
10	4	- Total decay rate- Angular momentum and parity selection rules-
11	4	Comparative half-lives- allowed and forbidden transitions- Selection rules- Parity violations-
12	4	Two component theory of neutrino decay- Detection and properties of neutrino- Gamma decay.
13	5	Baryons and Mesons- their properties, decay models-
14	5	Strong, weak and electromagnetic interactions- Hadrons and Leptons,
15	5	Tau-Theta puzzle- Strangeness- Gellman- Nishijima-relations- SU(3) classifications of Hadrons-Octets and decouplets- elementary ideas of Quarks – New particles.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**JUDE LEONARD HILARY H**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**18JPPH46 : PROJECT**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	INTRODUCTION TO CRYSTAL GROWTH
2	1	INTRODUCTION TO CRYSTAL GROWTH
3	2	SYNTHESIZATION OF CRYSTALS
4	2	SYNTHESIZATION OF CRYSTALS
5	2	SYNTHESIZATION OF CRYSTALS
6	2	SYNTHESIZATION OF CRYSTALS
7	3	CHARACTERIZATION OF CRYSTALS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	CHARACTERIZATION OF CRYSTALS
9	4	SYNTHEZATION OF CRYSTALS
10	4	SYNTHEZATION OF CRYSTALS
11	4	SYNTHEZATION OF CRYSTALS
12	5	INTERPRETATION AND DISSERTATION WRITING
13	5	INTERPRETATION AND DISSERTATION WRITING
14	5	INTERPRETATION AND DISSERTATION WRITING
15	5	INTERPRETATION AND DISSERTATION WRITING

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**3**
Subject	**18PPH33 : CONDENSED MATTER PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Electrons in a periodic lattice - Bloch theorem - band theory - Effective mass- Classification of solids – metals -
2	3	semiconductors and insulators – Phonons - Fermi surface- Brillouin Zones - construction of Fermi surfaces - Experimental methods in Fermi surface studies-
3	3	Cyclotron resonance – magnetoresistance - De Haas Van Alphen effect.
4	4	Phenomena of superconductivity - Meissner effect - Type I and II superconductors- Thermodynamics of superconducting transitions -
5	4	London's equation - Cooper pairing - BCS theory of superconductivity- Ginzbung - London theory- Josephson theory -
6	4	D.C and A.C. Josephson effect - Quantum interference - vortices and Type II superconductors – Introduction to High temperature superconductors.
7	1	Unit Cell, Milller Indices, Reciprocal Lattice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Types of crystal, determination of crystal size
9	1	X-ray diffraction techniques
10	2	Crystal imperfections - point defects and phonon defects -
11	2	ionic conductivity and lattice defects - Colour centres- F-centres - dislocations-dislocation densities - elementary ideas of crystal growth -
12	2	grain boundaries - dislocations in plastic deformation and crystal growth - X-rays and electron microscope techniques in crystal imperfection studies.
13	5	Polarization – dielectric constants – interval field – electric polarizability – ferroelectric crystals – displacive transitions – antiferroelectricy –
14	5	ferroelectric domain – piezo electricity – interaction between magnetic ions – Curie Weiss law – exchange interaction – internal field –
15	5	spin waves – ferromagnetic domains – anti ferromagnetism – behavior of antiferromagnets above and below Neel temperature.

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEBASTIAN S Dr.**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**18EPPH45 : ASTRONOMY AND ASTRO PHYSICS**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Overview of Special Relativity, space time diagrams, Lorentz metric, light cones,
2	1	electrodynamics in 4 dimensional language. Introduction to general relativity (GR),
3	1	equivalence principle, gravitation as a manifestation of the curvature of space time.
4	2	Spherical symmetry, derivation of the Schwarzschild solution, test particle orbits for massive and massless particles.
5	2	The three classical tests of GR, blackholes, event horizon
7	3	covariant derivatives, physics in curved space time, curvature -
8	3	Riemann tensor, Bianchi identities, action principle, Einstein's field equations, energy momentum tensors,

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	energy-momentum tensor for a perfect fluid, connection with Newton's theory.
10	4	Cosmological principle, Robertson-Walker metric, cosmological redshift, Hubble's law, observable quantities -
11	4	luminosity and angular diameter distances, dynamics of Friedmann-Robertson- Walker models
12	4	: Solutions of Einstein's equations for closed, open and flat universes.
13	5	Thermal history of the universe: Temperature-redshift relation, distribution functions in the early universe - relativistic and non-relativistic limits.
14	5	Decoupling of neutrinos and the relic neutrino background - nucleosynthesis - decoupling of matter and radiation
15	5	; cosmic microwave background radiation - inflation - origin and growth of density perturbations.
6	2	urved spaces, tensor algebra, metric, affine connection,

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SHOBA D DR**	Academic Year	**2023-2024**
Department	**Physics**	Semester	**4**
Subject	**18JPPH46 : PROJECT**	Course	**Physics**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	LITERATURE SURVEY
2	2	Searching of the compound
3	3	purchase of chosen compound send the compound to record experimental spectrum
4	4	learning of the computational software
5	5	learning of the computational software
6	6	Calculation made chosen compound using software
7	7	Making tables and figures

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	Making tables and figures
9	9	interpreting the data's with experimental data
10	10	interpreting the data's with experimental data
11	11	writing the project report
12	12	writing the project report
13	13	writing the project report
14	14	making thesis
15	15	preparing for viva

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**1**
Subject	**19PSW14 : COMMUNITY ORGANIZATION AND SOCIAL ACTION**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Community Organization: Concepts, Definition, Objectives, Philosophy, Approaches and Principles; Community Welfare Councils and Community Chests. Methods of Community Organization; Awareness Creation based on Social issues.
2	2	Community Organization: Concepts, Definition, Objectives, Philosophy, Approaches and Principles; Community Welfare Councils and Community Chests. Methods of Community Organization; Awareness Creation based on Social issues.
3	2	Community Organization: Concepts, Definition, Objectives, Philosophy, Approaches and Principles; Community Welfare Councils and Community Chests. Methods of Community Organization; Awareness Creation based on Social issues.
4	2	Community Organization: Concepts, Definition, Objectives, Philosophy, Approaches and Principles; Community Welfare Councils and Community Chests. Methods of Community Organization; Awareness Creation based on Social issues.
5	3	Phases of Community Organization: Assessment of community using PRA; Community Organization in emergencies like Fire, Famine, Flood, Drought, Earthquake and War; Community Organization at Local, State and National level; Community organization in Rural,.
6	3	Phases of Community Organization: Assessment of community using PRA; Community Organization in emergencies like Fire, Famine, Flood, Drought, Earthquake and War; Community Organization at Local, State and National level; Community organization in Rural,.
7	0	I CIA Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Principles, Approaches of Social Action
9	4	Approaches, Methods and Strategies of Social Action
10	5	Social Reform and Social movements - Various contributions to the theory of Social Action: Mahatma Gandhi, Periyar, Ambethkar, Paulo Freire, Saul Alinsky, Martin Luther King, and Karl Marx. Role of Social Workers in Community Organization and Social Act.
11	5	Social Reform and Social movements - Various contributions to the theory of Social Action: Mahatma Gandhi, Periyar, Ambethkar, Paulo Freire, Saul Alinsky, Martin Luther King, and Karl Marx. Role of Social Workers in Community Organization and Social Act.
12	5	Social Reform and Social movements - Various contributions to the theory of Social Action: Mahatma Gandhi, Periyar, Ambethkar, Paulo Freire, Saul Alinsky, Martin Luther King, and Karl Marx. Role of Social Workers in Community Organization and Social Act.
13	5	Social Reform and Social movements - Various contributions to the theory of Social Action: Mahatma Gandhi, Periyar, Ambethkar, Paulo Freire, Saul Alinsky,
14	0	II CIA Examination
15	0	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**2**
Subject	**19PSW23 : SOCIAL POLICY AND SOCIAL LEGISLATIONS**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Social policy: Meaning, Scope, Objectives and Types - Social Welfare policy
2	1	Indian Constitution: Fundamental Rights Directive principles of State Policy
3	2	Policies and Programmes in India – Education, Health, Housing
4	2	Policies and Programmes in India for Environment, Employment, Family
5	2	Policies and Programmes in India for Child, Women, Elderly, Disabled and Backward Classes
6	3	Social Legislation: Meaning and Scope, Social Legislation in India
7	3	Indian Penal Code, Family Courts, Lok Adalats, The Legal Aid

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Public Interest Litigation and Right to Information Act 2005
9	4	The Special Marriage Act 1955, Dowry Prohibition Act 1961,Hindu Adoption and Maintenance Act 1956
10	4	Juvenile Justice Act 1986, Child Labour Abolition and Regulation Act 1986, Bonded Labour Abolition Act 1976
11	4	Protection of Civil Rights Act 1955. Protection of Consumer Act 1986.
12	5	Prevention of Immoral Traffic Act 1986, Transplantation of Human Organ Act 1994, Tamil Nadu Prohibition of Eve Teasing Act 1988
13	5	Tamil Nadu Prohibition of Ragging Act 1998, Domestic Violence Act 2005, Mahatma Gandhi National Rural Employment Guarantee Act 2005
14	5	Right to Education 2009, Protection of Children from Sexual Offences (POCSO) Act 2012, The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013
15	5	Revision and Group Discussion

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**3**
Subject	**EPSW913 : COMPUTER APPLICATION IN SOCIAL WORK**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fundamentals of a Computer: Meaning, Characteristics, basic operations – input, storage, processing, output, ALU and control. Devices of a computer hard ware, software, types of software – application, system, utility.
2	1	Meaning of programme. Computer language – machine, assembly high level. Assembler, interpreter and compiler, operating system. Dos, Windows
3	1	Meaning of programme. Computer language – machine, assembly high level. Assembler, interpreter and compiler, operating system. Dos, Windows
4	3	Basics of Statistical analysis; Population, Sample, Case, Case number, Variable, Variable level, Types of variable System missing value, User defined missing value, Code book and Code sheet, Types of statistics, Statistical tests, Types of analysis. Stru.
5	3	Basics of Statistical analysis; Population, Sample, Case, Case number, Variable, Variable level, Types of variable System missing value, User defined missing value, Code book and Code sheet, Types of statistics, Statistical tests, Types of analysis. Stru.
6	3	Basics of Statistical analysis; Population, Sample, Case, Case number, Variable, Variable level, Types of variable System missing value, User defined missing value, Code book and Code sheet, Types of statistics, Statistical tests, Types of analysis. Stru.
7	0	I CIA Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Defining data, Variable name in SPSS
9	4	Variable label Values, value labels. Editing data file, adding cases, adding variables in SPSS
10	5	Analysis of data: Single frequency, Bivariate Analysis, charts and diagrams. Editing of table and charts, exporting tables and charts in word document. Interpretation of data, Application of statistical calculation and test, measurement of central tenden.
11	5	Analysis of data: Single frequency, Bivariate Analysis, charts and diagrams. Editing of table and charts, exporting tables and charts in word document. Interpretation of data, Application of statistical calculation and test, measurement of central tenden.
12	5	Analysis of data: Single frequency, Bivariate Analysis, charts and diagrams. Editing of table and charts, exporting tables and charts in word document. Interpretation of data, Application of statistical calculation and test, measurement of central tenden.
13	5	Analysis of data: Single frequency, Bivariate Analysis, charts and diagrams. Editing of table and charts, exporting tables and charts in word document. Interpretation of data, Application of statistical calculation and test, measurement of central tenden.
14	0	CIA Exam
15	0	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	TAMIL ILAKIYA VARALARU - IRATAI KAPIYANGAL TAMIL ILAKIYA VARALARU - FIVE PERUM PAKIYANGAL
2	4	TAMIL ILAKIYA VARALARU - IRATAI KAPIYANGAL TAMIL ILAKIYA VARALARU - FIVE PERUM PAKIYANGAL
3	4	TAMIL ILAKIYA VARALARU - IRATAI KAPIYANGAL TAMIL ILAKIYA VARALARU - FIVE PERUM PAKIYANGAL
4	4	TAMIL ILAKIYA VARALARU - FIVE SIRU KAPIYANGAL
5	5	MOZHI THIRAN - PANBALAI VANOLI NIGAZCHI THOGUPU
6	5	MOZHI THIRAN - VADIKAIYALAR SAVAI MYA ALUVALER
7	5	MOZHI THIRAN - SURTULA VAZHIKATTI , KADITHANGAL

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	MOZHI THIRAN - KADITHANGAL
9	5	MOZHI THIRAN - POTHUKATURAI
10	3	PERIYAPURANAM- KAZARSINGA NAYANAR PURANAM
11	3	RATCHANYA YATHIRIGAM - SILUVAI PADUGAL
12	3	SEERAPURANAM - PULI VASANITHA PADALAM
13	4	CHIRUSTHAVA KAPIYANGAL
14	4	ISLAM KAPIYANGAL
15	4	SOLARKALA KAP[IYANGAL

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Sanga Ilakiyam : 1. Purananooru 2. Agananooru
2	1	Sanga Ilakiyam : 1. Agananooru
3	4	Ilakiyavaralaru : Etuthogai Noolgal
4	4	Ilakiyavaralaru : Etuthogai Noolgal
5	4	Ilakiyavaralaru : Etuthogai Noolgal
6	4	Neethi Noolgal
7	4	Neethi Noolgal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhithiran - Saithi Varaithal
9	5	Suriki Varaithal, Naarkanal (Patti)
10	5	Ilakiya Varalaru - Pathupattu
11	5	Ilakiya Varalaru - Pathupattu
12	2	Nadunal Vadai
13	2	Sirupanartu Padai Kadai 7 Vallalgal
14	2	Madurai Kanji
15	2	Mullaipattu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**19ZO305 : CELL BIOLOGY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	UNIT – I History of Cell– Principles of microscopes light and electron, -
2	1	Cytological techniques
3	1	cell fractionation, Homogenization Centrifugation, Isolation of Sub-cellular components.
4	2	UNIT – II Cell – Cell theory, Ultra structure of animal cell — Plasma Membrane –
5	2	structure, composition and functions – cell components
6	2	Endoplasmic reticulum.
7	3	UNIT – III Cytoplasm – Physical, chemical and biological properties.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Nucleus – Ultrastructure,
9	3	Composition and Function.
10	4	UNIT – IV Cell cycle and cell division –
11	4	Amitosis, Mitosis
12	4	meiosis and their significance.
13	5	UNIT – V Structure and functions of DNA
14	5	types of RNA [mRNA, tRNA, rRNA].
15	5	Semi conservative replication.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**THENMOZHI P**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ZO407 : GENETICS**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to genetics – Basis of Mendelian Inheritance and Mendelian Laws –
2	1	Interaction of Genes – Complementary Factors,
3	1	Inhibitory and lethal Factors Atavism.
4	2	Multiple Alleles – Blood Groups and their Inheritance in man.
5	2	Blood Groups and their Inheritance in man.
6	2	Pedigree analysis in human traits.
7	3	Linkage and crossing over –

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Drosophila – Morgan's Experiments - Cytological Evidence for Crossing Over.
9	3	Sex determination and sex linkage in Drosophila and Man.
10	4	Non – Disjunction and Gynandromorphs– Cytoplasmic Inheritance
11	4	Maternal effect on Limnaea [shell coiling], Fine Structure of Gene – Cistron –
12	4	Recon, Muton – Gene Regulation – Operon concept – Lac Operon.
13	5	Mutation – chromosomal Aberrations – examples from Human. Applied Genetics –
14	5	Animal Breeding – Heterosis, Inbreeding, Out breeding, Out Crossing, Hybrid Vigour.
15	5	Population Genetics: Hardy weinberg Law – factors affecting Hardy Weinberg Law.

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	?????????????
2	2	????????
3	4	Peunkappiyangal
4	4	Rettai kappiyangal
5	5	Panpalai vanoli nigalchi thoguppalar thahuthigal
6	5	Vadikkaiyalar sevaimaya aluvalar thaguthigal
7	5	Letters, composition

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Kambaramayanam, nool kurippu,
9	3	Kambaramayanam, text
10	3	Periyapuranam
11	4	Christhava kappiyangal
12	4	Islamiya kappiyangal
13	4	Cholar kala kappiyangal
14	5	Kadithangal
15	5	Pothu katturaikal

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananooru Ahananooru Kurunthohai
2	1	Katrina Inkurunooru Kalithhogai
3	1	Paripadal
4	3	Arivudaimai Natparaythal
5	3	Pulavinunukkam
6	4	Ettuththohai
7	4	Neethinoolgal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Seithi varaithal Surukkivaraithal
9	5	Nerkanal
10	2	Nedunalvadai
11	2	Nedunalvadai
12	2	Sirubanatruppadai
13	2	Maduraikanji
14	2	Mullaipattu
15	4	Pathuppattu

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**HEMALATHA J**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ACS401 : BASIC OF COMPUTERS AND ITS APPLICATIONS**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Introduction to computer peripherals
2	2	CPU Types of processor
3	2	Memory Storage device
4	2	Input output devices
5	2	Installing and removing of software
6	2	Installing Tamil font software
7	2	Viruses Antiviruses

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Formatting text and paragraph using font dialog box
9	3	Paragraph Formatting using bullets and numbering in paragraphs Check spelling Line spacing Margins Space before and after paragraph
10	5	Introduction to Microsoft Power Point
11	5	Slide presentation
12	5	Creating manipulating and enhancing slides Organizational charts
13	5	Inserting clip arts Adding objects Formatting and checking text
14	5	Internet basics Basic internet terms Getting connected to internet
15	5	Internet applications Electronic mail Searching the web

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**SEETHA LAKSHMI**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**19ABC303 : ALLIED BIOCHEMISTRY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction about protein, classification of protein based on size and shape
2	3	Introduction about protein based on chemical composition and solubility
3	3	Peptide bonds, functions of protein
4	3	Bonds involved in protein structure
5	3	Structure of protein - primary, secondary, tertitary and quarternary structure of protein
6	3	Denaturation and its importance, salting in and out
7	3	Importance of peptide bond

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Introduction about nucleic acids
9	4	Nucleosides, nucleotide and phosphodiester bonds
10	4	Structure of DNA
11	4	Types of DNA.
12	4	Properties of DNA:denaturation, renaturation, hyperchromocity, melting temperature
13	4	Structure of RNA
14	4	Structure and functions of mRNA and rRNA
15	4	Structure and functions of tRNA

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ACS401 : BASIC OF COMPUTERS AND ITS APPLICATIONS**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction of Computer
2	1	Computer and its components
3	1	Characteristics of Computer- Generation of Computer
4	1	Types of Computers- Uses of Computers
5	1	Latest trends in computer
6	3	Introduction to Word Processing, Advantages of word processing
7	3	, Creating, Saving and Editing a document

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Selecting, Deleting, Replacing Text
9	3	Copying text to another file.
10	3	Formatting Text and Paragraph
11	4	Introduction to spreadsheet, Entering information
12	4	Numbers, Formula, Editing Data in a cell, Excel functions
13	4	Using a Range with SUM, Moving and copying data
14	4	Inserting and Deleting Row and Columns in the worksheet
15	4	Using the format cells Dialog box, Using chart wizard to create a chart.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr. P. Indhu Sakthi**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock Interview. Actual Interviews. Facing an Interview. Tele - Interviews.
2	1	Drama - Julius Caesar by William Shakespeare. Novel - The Count of Monte Cristo chapter (1-10) . Description.
3	2	Words often confused. Seminar Skills. Drama - Macbeth by William Shakespeare.
4	2	Novel - The count of Monte Cristo chapter-(11-20) Idioms and phrases.
5	3	Homonyms and similar words. Tele - conferences. Handling customers or clients.
6	3	Receiving Visitors. Drama - Henry IV by William Shakespeare. Novel - The count of Monte Cristo chapter (21-25).
7	3	Novel - The count of Monte Cristo chapter (26-30). The use of Graphics.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA Exam
9	4	Homophones. Booking Hotel Accommodation. Making small talk and Telling Stories.
10	4	Drama - As you like It by William Shakespeare. Novel - The count of Monte Cristo chapter(31-35).
11	4	Negotiations. Novel - The count of Monte Cristo chapter (36-40).
12	5	Group Discussions. Making Appointments. Cancelling and Rescheduling.
13	5	Drama - Hamlet by William Shakespeare. Novel - The count of Monte Cristo chapter (41-49). Writing Review of Books.
14	0	II CIA Exam
15	0	REVISION

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Elements of narration Welcome speech
2	1	Introduce the chief guest to others Vote of thanks REFUND-play publicity literature
3	2	Quit India- Mahatma Gandhi-prose social and national issues Spotting error
4	2	The Bear-one act play Tryst with Destiny - Nehru
5	3	I HAVE A DREAM- MARTIN LUTHER KING GETTYSBURG ADDRESS -ABRAHAM LINCOLN
6	3	Email writing THE HOUR OF TRUTH -PLAY NEWS REPORT
7	0	I CIA EXAM

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	II. Speaking : Presentation Skills IV. Writing: Resume Writing
9	5	I. Listening: Some useful Expressions II. Speaking : Speech Writing
10	5	1. Biography: Marie Curie- Colin Mitchell 2. Biography: Sarojini Naidu – Padmini Sengupta IV. Writing: Minutes Writing
11	4	1. Inaugural Address – John. F. Kennedy (Speech: Prose)
12	4	2. Prepared to Die- Nelson Mandela (Speech: Prose)
13	4	III. Reading : Autobiography : Sorrows of Childhood – Charles Chaplin
14	0	II CIA EXAM
15	5	REVISION AND CLASS TEST

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**19ABC303 : ALLIED BIOCHEMISTRY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition of carbohydrates, classification of carbohydrates-monosaccharides (glucose and fructose) its structure and properties etc.
2	1	Structure of disaccharides (lactose, maltose) its its structure and properties etc.
3	2	Structure of polysaccharides-homopolysaccharides, heteropolysaccharides (starch) its structure and properties.
4	2	Amino acid definition, classification of amino acid based on structure, standard and non standard amino acids
5	2	Essential and non-essential amino acids, Zwitter ion, isoelectric pH
6	2	physical and chemical properties of amino acids, Dansyl chloride reaction, Edman's reagent, Ninhydrin reaction, Vanslyke reaction...Salting in and salting out..
7	5	Lipids definition, classification of lipids , Phospholipids

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Lecithin, cephalin and Cholesterol structure and functions
9	5	Physical properties of lipids
10	5	Fatty acids: saturated and unsaturated fatty acids
11	5	Chemical properties of lipids: Emulsification, Saponification
12	5	Iodine Number, Acid number
13	5	Rancidity, Reichert Miessel Number
14	5	Revision
15	5	Revision

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LESSON PLAN

Name of the Staff	**PRIYA N Dr**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**19ABP303 : ALLIED BIOCHEMISTRY PRACTICAL**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Estimation of glycine
2	3	Estimation of Ascorbic acid
3	3	Estimation of Glucose
4	3	Qualitative analysis of carbohydrates - Glucose and fructose
5	3	Qualitative analysis of carbohydrates - Maltose and Lactose
6	3	Qualitative analysis of carbohydrates - Sucrose and Starch
7	3	Qualitative analysis of amino acids - tyrosine, tryptophan

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Qualitative analysis of amino acids - Arginine, Histidine
9	3	Qualitative analysis of amino acids - tyrosine, tryptophan
10	3	Estimation Procedure test
11	3	Qualitative analysis of carbohydrates procedure test
12	3	Qualitative analysis of amino acids procedure test
13	3	Model practical
14	3	Model Practical
15	3	Model Practical

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LESSON PLAN

Name of the Staff	**GANESH KUMAR T**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ABZ404 : Allied Botany**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Prokaryotic and eukaryotic cells[plant cells]-cell organelles
2	2	–chloroplast, mitochondria and the nucleus – cell divisions-mitosis- tissues- meristomatic and permanent tissues-
3	2	primary and normal secondary thickening of the dicot stem.
4	3	Photosynthesis
5	3	light reaction
6	3	calvin cycle respriration- glycolysis
7	3	and kerb's cycle-electron transportsystem-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	growth hormones-Auxins-tissue culture –
9	3	principles-structure of mature anther-
10	3	structure of mature ovule-and its types and fertilization
11	4	Structure and life history of penicillum
12	4	Structure and life history of chorella,
13	4	Structure and life history of agaricus,
14	4	Structure and life history of funeria and cycas- economic importance of chorella,
15	4	economic importance of peneciellum and agaricus

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**EVS301S : ENVIRONMENTAL SCIENCE**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition, scope and importance of environmental studies – forest resources: deforestation, mining, dams – water resources: over – utilization, floods, drought
2	1	mineral resources: exdploitation, extraction and usage – food resources: food problems, overgrazing, pesticide problems, water logging, salinity
3	1	energy resources: energy needs, renewable and non renewable energy – land resources: land degradation, landslides, soil erosion and desertification – conserving natural resources.
4	2	Concept, structure and function of an ecosystem – producers, consumers and decomposers – energy flow
5	2	ecological succession – food chains, food webs and ecological pyramids
6	2	types, characteristics, structure and function of forest ecosystem, grassland ecosystem, desert ecosystem and aquatic ecosystem
7	3	Definition of biodiversity – genetic, species and ecosystem diversity – value of biodiversity

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	India as a mega diversity nation – hot spots – threats to biodiversity
9	3	endangered and endemic species of India – In-situ and Ex-situ conservation of biodiversity.
10	4	Cause, effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution and nuclear hazards
11	4	solid waste management: causes, effects, control measures and disposal of wastes
12	4	disaster management: floods, earthquakes, cyclone, land slides and tsunami.
13	5	Water conservation, rain water harvesting, watershed management – environmental ethics: issues and possible solution – climate change, global warming, acid rain, ozone depletion
14	5	nuclear accidents and holocaust – wasteland reclamation – Environment protection Act – Wildlife protection Act – Forest Conservation Act
15	5	public awareness – Population explosion – Environment and human health – Role of Information Technology in Environment and human health.

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**19ZO306 : MOLECULAR BIOLOGY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Biochemical techniques
2	1	electrophoresis and their applications
3	1	Cell culture techniques and applications.
4	2	Ribosomes, Golgi Complex
5	2	Lysomes, Glyoxisomes, peroxisomes
6	2	centrioles and Mitochondria.
7	3	Chromosomes structure

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Heterochromosome, Euchromatin
9	3	Giant chromosomes (Polytene and Lamp brush chromosomes).
10	4	Cancer biology – structure of cancer cell
11	4	carcinogenesis
12	4	Aging – Cell death and apoptosis
13	5	Mechanism of DNA replication
14	5	enzymology of DNA replication
15	5	Protein synthesis

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ZO408 : BIOTECHNOLOGY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Definition – Scope and applications
2	1	isolation of DNA – cloning
3	1	Tools of Genetic Engineering – Enzymes, Linkers and Adaptors.
4	2	Cloning vectors, [plasmids, pBr322, Phage I, Cosmids and phagemids].
5	2	Techniques of Genetic Engineering
6	2	-Recombinant DNA Technology.
7	3	Gene Cloning in prokaryotes [cDNA and Genomic Library].

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Basics of human genome project.
9	4	Transgeneic plants and animals – DNA finger printing – gene therapy
10	4	biocensors – biochips
11	4	Production of Transgenic plant (Bt. Cotton)
12	4	transgenic animal (mice).
13	5	Application of Recombinant DNA technology in Medicine
14	5	Application of Recombinant DNA technology in Agriculture –
15	5	Socio economic issues of Biotechnology in India

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ZOP42 : CELL & MOLECULAR BIOLOGY GENETICS & BIOTECHNOLOGY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Cytometry Compound microscope, Camera Lucida, Stage ad Ocular Micrometers
2	1	Blood Smear Preparation – Differential count of W.B.C.
3	1	Total count of RBC using Haemocytometer.
4	1	Total count of WBC using Haemocytometer.
5	2	Slide Preparation Buccal Smear.
6	2	Mitosis in onion root tip squash.
7	3	Squash preparation of Grass hopper testes. Study of prepared slides of histology. Columnar Epithelium, Ciliated epithelium, Glandular Epithelium. Cartilage T.S., Bone T.S.,

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Cardiac Muscle, Striated muscle, Non Striated muscle, Neuron, C.S of mammalian Testis and Ovary. Squash preparation of Salivary glands of chironomous larva (Giant chromosome).
9	4	Male & Female identification of Drosophila. Observation of common Mutants of Drosophila.
10	4	Human Blood Grouping.
11	4	Study of prepared slides, Models or specimen. Escherichia coli, Bacteriophage, Plasmid.
12	5	Demonstration of P.C.R technique:
13	5	Southern blot,
14	5	Electrophoresis.
15	5	Visit to Biotechnology lab and Report – compulsory.

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ABZ404 : Allied Botany**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	General outline of Bentham and hooker's system of classification.
2	1	Bacteria-general characters-shape-flagellation-
3	1	structure of E.coli –reproduction, economic importance structure of TMV and Bacteriophage
4	1	study of the characters and the economic important of the following families Cucurbitaceae, Apocynaceae,
5	1	Euphorbiaceae and Liliaceae.
6	3	Photosynthesis –light reaction- calvin cycle
7	3	respriration- glycolysis and kerb's cycle-electron transportsystem-

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	growth hormones-Auxins-tissue culture
9	5	Mendilism-monohybrid cross
10	5	dihybrid cross
11	5	theories of evolution-Lamarckism
12	5	Darwinism
13	5	ecosystem- fresh water ecosystem,
14	5	environmental pollution-types
15	5	environmental pollution control measures.

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**4**
Subject	**19ABP404 : Allied Botany PRACTICAL -IV**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Description of plants in technical terms belonging to the families mentioned in the theory part.
2	1	Description of plants in technical terms belonging to the families mentioned in the theory part.
3	1	Description of plants in technical terms belonging to the families mentioned in the theory part.
4	1	Description of plants in technical terms belonging to the families mentioned in the theory part.
5	2	To study the internal structure of Anatomy material, Pteridophytes and Gymnosperms.
6	2	To study the internal structure of Anatomy material, Pteridophytes and Gymnosperms.
7	2	To study the internal structure of Anatomy material, Pteridophytes and Gymnosperms.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	To study the internal structure of Anatomy material, Pteridophytes and Gymnosperms.
9	3	Identification and Description of Micro Preparation materials mentioned in the theory part.
10	3	Identification and Description of Micro Preparation materials mentioned in the theory part.
11	3	Identification and Description of Micro Preparation materials mentioned in the theory part.
12	3	Identification and Description of Micro Preparation materials mentioned in the theory part.
13	4	Description of experimental setup of plant physiology.
14	4	Description of experimental setup of plant physiology.
15	4	Description of experimental setup of plant physiology.

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LESSON PLAN

Name of the Staff	**JAYAPRABHA N**	Academic Year	**2023-2024**
Department	**Zoology**	Semester	**3**
Subject	**19ZOP302 : CELL & MOLECULAR BIOLOGY GENETICS & BIOTECHNOLOGY**	Course	**Zoology**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	CELL AND MOLECULAR BIOLOGY Cytometry Compound microscope
2	1	Camera Lucida
3	1	Stage and Ocular Micrometers
4	1	Blood Smear Preparation – Differential count of W.B.C.
5	1	Total count of RBC using Haemocytometer
6	1	Total count of WBC using Haemocytometer
7	1	Slide Preparation Buccal Smear

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Mitosis in onion root tip squash
9	1	Squash preparation of Grass hopper testes.
10	1	Study of prepared slides of histology. Columnar Epithelium,
11	1	Ciliated epithelium, Glandular Epithelium
12	1	Cartilage T.S., Bone T.S.,
13	1	Cardiac Muscle, Striated muscle,
14	1	Non Striated muscle, Neuron
15	1	C.S of mammalian Testis and Ovary

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LESSON PLAN

Name of the Staff	**Dr. M. Arumai Selvam**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Programs on C++
2	1	Simple Programs Based on Datatypes in C++
3	1	Develop a Simple C++ Programs based on Mathematical Formulas
4	2	Simple Programs Based on operators & Control Statements
5	2	Programs Based on Arrays
6	2	Crete Simple programs based on Various Functions
7	3	Create a Programs based on Constructor in C++

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Create a Programs based on Destructors in C++
9	3	Programs Based on Operator Overloading & Virtual Functions
10	4	Programs Based on Implementing the Concept of single Inheritance in C++ Programs Based on Implementing the Concept of Multiple Inheritance in C++
11	4	Programs Based on Implementing the Concept of Multilevel Inheritance in C++ Programs Based on Implementing the Concept of Hierarchical Inheritance in C++
12	4	Programs Based on Implementing the Concept of Hybrid Inheritance in C++
13	5	Implement PUSH, POP operations of stack using Arrays.
14	5	Implement add, delete operations of a queue using arrays. Conversion of infix to postfix using stacks operations.
15	5	Binary tree traversals [In – order, Pre-order, and Post-order] using Recursion.

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LESSON PLAN

Name of the Staff	**AROCKIADOSS S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LT202T : TAMIL - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Thrumullar, Thoderadipodi azhvar
2	1	Thrunavukarasar, Manickavasakar
3	1	Andal Patinathar
4	4	Azhvarkal
5	5	Puzhagu porul
6	5	Mozhipayarupu
7	4	Urainadai valarchi

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Throgasuvadugal
9	3	Throgasuvadugal
10	3	Throgasuvadugal
11	4	Sitruelackeyam
12	4	Eslamum tamilum
13	2	Kumarakurbarar
14	2	Nanthi kalabagam
15	2	Muckudar pallu

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	BASIC PROGRAMS
2	1	LOGICAL PROGRAMS
3	1	PROGRAMS WITH ARRAYS,MATRIX WITH FOR LOOP
4	2	PROGRAMS WITH FORMULAE
5	2	GENERAL PROGRAMS
6	3	GENERAL PROGRAMS
7	3	GENERAL PROGRAMS

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	GENERAL PROGRAMS
9	3	MATRIX PROGRAMS
10	3	MATRIX MULTIPLICATION PROGRAMS
11	4	Matrix Transpose
12	4	Recursion with examples
13	4	File handing
14	5	Implementing looping and control statements
15	5	Revision of the programs

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LESSON PLAN

Name of the Staff	**VIRGIN RAJ A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Introduction of Matrix
2	3	rank of Matrix
3	3	rank of Matrix
4	3	Consistency and solutions of Linear Systems
5	3	Cayley Hamilton Theorem
6	3	Eigen Values
7	3	Eigen Vectors

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	n-th derivatives , Leibnitz theorem [without proof] and its applications
9	5	Leibnitz theorem [without proof] and its applications
10	5	Jacobians
11	5	Jacobians
12	5	Concept of polar coordinats
13	5	curvature
14	5	Radius of curvature in Cartesian coordinates
15	5	Radius of curvature in Cartesian coordinates

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LESSON PLAN

Name of the Staff	**VANATHAIYAN M Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	VALALAR PADALGAL
2	2	BARATHIYAR - BARATHADASAM
3	3	KANADASAN - YASUKAVIYAM
4	4	ILAKIYAVARALARU - IRUBATHAM NOORTANDU KAVINGERKAL
5	5	ILAKIYAVARALARU - SIRUKATHAI THORTAM VALERCHY
6	6	SIRUKATHAI - KATHAVU
7	7	SIRUKATHAI - KUDUBATHIL ORU NABER

Cycle	Unit	Topics to be covered / Activity to be carried out
8	8	ILAKANAM - VALLINAM MIGUM, MIGA IDEAM
9	9	ABDUL RAHUMAN - ARAVATHU ARIVU
10	2	PUTHUKAVITHAI - M. MATHA - DESAPITHA KAVINGER VAIRAMUTHU- SUYAKOLLI
11	2	THAMIZACHI - THOZHI NATUPURA PADALGAL - MAZAI PADALGAL
12	3	ILAKIYA VARALARU - PUTHUKAVITHAI THORTAM VALERCHI
13	3	ILAKIYA VARALARU - NATUPURA ILAKIYANGAL
14	4	SIRUKATHAI - JAIL , MINNAL
15	4	SIRUKATHAI - ELUTHA MARANTHA KATHAI

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LESSON PLAN

Name of the Staff	**MARIA PARIMALA M A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS204S : FUNDAMENTALS OF DATA STRUCTURES**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Data structure: Definition of a Data structure - Primitive and Composite Data types,
3	1	Operations on Arrays -ordered Lists.
4	2	Stacks and Queues: Stacks – Operation - Application of Stack
5	2	Infix to Postfix Conversion
6	2	Queues- Operations on Queues, Queue Applications -
7	3	Circular Queue.Linked List: Singly Linked List
8	3	Representation of a Polynomial - Polynomial addition

Cycle	Unit	Topics to be covered / Activity to be carried out
9	3	Doubly Linked List.
10	4	Trees: Binary trees - Representation –
11	4	Conversion of Forest to Binary tree
12	4	Tree Traversals
13	5	Graphs: Definition – Graph Representation
14	5	Types of Graphs
15	5	Shortest Path (Dijikistras Algorithm). Revision
2	1	Arrays-Representation of arrays-Types of Arrays

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LESSON PLAN

Name of the Staff	**VICTORIA ANAND MARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic C programs Arithmetic Operation
2	1	Swapping Two numbers Finding Odd or Even
3	1	C programs using Control structure(if else)
4	1	Summation of series
5	1	String Manipulation.
6	1	Sorting Bubble Sort
7	1	Sorting Selection Sort

Cycle	Unit	Topics to be covered / Activity to be carried out
8	1	Sorting Insertion Sort
9	1	Searching Linear Search
10	1	Searching Binary Search
11	1	Matrix Manipulations Matrix Addition
12	1	Matrix Manipulations Matrix Subtraction
13	1	Matrix Manipulations Matrix Multiplication
14	1	Recursion
15	1	File Handling - Mark sheet. Revision of all programs

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LESSON PLAN

Name of the Staff	**Dr. E. Ruby Violet Rani**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**VE101T : VALUE EDUCATION**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Valurs
2	1	Source
3	1	Erosion of value
4	2	Learning
5	2	Theories
6	2	Continued
7	3	Memory

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Stages of memory
9	3	Modelling
10	4	Emotions
11	4	Theories
12	4	Pleasant emotions
13	5	Intelligence
14	5	Determinants
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS102S : DIGITAL LOGIC FUNDAMENTALS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Binary Systems Basics of computers types of computers Digital Computers and Digital Systems
2	1	Number Base Conversion decimal binary octal hexadecimal
3	1	Binary Number System Binary Addition Binary Subtraction Binary Multiplication Binary Division unit revision
4	2	Boolean Algebra -Theorems -Properties of Boolean Algebra -Basic notations
5	2	Logic Gates -Basic Gates -Universal Gates
6	2	Bubbled gates -Exclusive gates -DeMorgans theorem unit revision
7	3	sum of products -products of sum -Simplification -conversions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	K-Map -2-var K-Map -3-var K-Map -4-var K-Map
9	3	Don't care conditons -Eliminating redundant groups -rolling the map unit revision
10	4	Adders-Half adder-Full Adder Subtractor- Half subtractor-Full Subtractor Binary Adder
11	4	Parallel adder -BCD adder -Encoder
12	4	Decoder -Multiplexer -DeMultiplexer unit revision
13	5	flipflops RS Flipflop -clocked RS Flipflop -D Flipflop
14	5	- J K Flipflop -T Flipflop master slave Flipflop
15	5	Counters -Synchronous counter -Asynchronous counter unit revision

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LESSON PLAN

Name of the Staff	**AROCKIA ARULDOSS J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AMCS22 : ALLIED MATHEMATICS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Game Theory
2	1	Graphical Method
3	1	Residual method
4	2	Assignment problem
5	2	Assignment problem with Restrictions
6	2	Travelling salesman problem
7	3	Laplace differentiation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Inverse Laplace
9	3	Problems on Inverse Laplace
10	4	Divergence
11	4	Angle between the Vectors
12	4	Irrotational and Solenoidal
13	4	Dot product and Cross Product
14	4	Problems on Vector,
15	4	Derivations on vector differentiation and revesion

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**LT101T : TAMIL - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	11	Vallalar_thiruvaruppa, Bharathiyar- Bhatayha thesam
2	2	Bharathi dhasan-Ulagam unnidaiyathu, kavimani-Aasiya jothi
3	13	Kannadhasan-Yesu kaviyam
4	3	Elakkia varalaru- Erupatham nootrandu kavithaikal
5	3	Elakkia varalaru - sikathaiyin thottramum valarchiyum
6	4	Sirukathai: kathavu - ki.Ra
7	44	Sirukathai: kudumpathil oru nabar - ki. Ra

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhi thiran - vallottu miga edam, migu midam
9	2	Puthu kavitha: Aalapanai - Abdul rahman
10	2	Puthukavithaikal: Thesapithavirku therupadagan Anjali, suyukolli - Vairamuthu
11	2	Puyhukkavithai : Enchottupen- thamizhasi, Nattupura padalkal
12	33	Elakkiya varalaru - puthukkavithaiyum thotramum varchiyum
13	3	Elkkiya varalaru - Nattupura elakkiyankal
14	4	Sirukathaikal : jail, Minnal - ki. Ra
15	44	Sirukathai : elzutha marantha kathai - ki. Ra

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CS101B : PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basics of C: C fundamentals Character set – Identifier and keywords
2	1	data types – constants– Variables – Declarations – Expressions
3	1	Statements – operators – Library functions.
4	2	Simple C Programs - Data Input Output functions
5	2	Flow of control : If, If - else, While, do- while, For loop
6	2	Nested Control structures - switch, case, break and continue, go to statements
7	3	Functions - Definition - Prototypes

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Passing Arguments in Functions
9	4	Arrays - One dimensional, Two dimensional and Multi dimensional array
10	4	Passing arrays in pointers
11	4	Structures and Union - Comparison between Structure and Union
12	5	Files - Operations on Files
13	5	Pointers - Passing pointers in Functions
14	1	Revision on Unit I, II and III
15	4	Revision on Unit IV and V

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**CSP101B : PRACTICAL - PROGRAMMING IN C**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Arithmetic operations in C Programs
2	1	Conditional Statements in C programs
3	1	Control Structures in C programs
4	2	Sorting Programs
5	2	String Operations
6	2	Switch case statements and Control structures
7	3	Functions programs - Passing arguments

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Binary search and Linear search
9	4	Arrays - Matrix Addition
10	4	Matrix Manipulations
11	4	I CIA model Practical Exam
12	4	Transpose of Matrix
13	5	Recursion Program
14	5	File Handling - Student Mark sheet Generation
15	5	II CIA model Practical Exam

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CS203S : PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Principles of Object Oriented Programming - Evolution of OOP - Programming Paradigms
2	1	Key concepts of OOP - Advantages of OOP
3	1	Usage of OOP in C++ - Input and Output in C++ - Streams
4	2	Fundamentals of C++ - Stream classes - Unformatted console I/O Operations
5	2	Introduction to C++ - Tokens, Keywords, Identifiers,Variables, Operators,Expressions - Control Structures in C++ - Pointers and arrays
6	2	Functions in C++ - Main function- Function prototyping - Parameters passing in Functions - Values return by functions - Inline Functions -Function overloading
7	3	Classes and Objects - Constructors and Destructors

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Operator Overloading and Type conversion
9	3	Friend and Virtual functions
10	4	Inheritance - Single Inheritance - Multilevel Inheritance
11	4	Multiple Inheritance - Hierarchical Inheritance - Hybrid Inheritance
12	4	Virtual Base class - Virtual Functions and Polymorphism
13	5	Classes for File Stream Operation - Opening and Closing a File
14	5	End-of-File Detection - File Pointers - Updating a File
15	5	Error Handling during File Operation - Command -line arguments

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**CSP202S : PRACTICAL - PROGRAMMING IN C ++**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Simple C++ Programs
2	1	Implementing various Library Functions in C++
3	1	Implementing Classes and Objects
4	2	Implementing Streams in C++
5	2	Implementing Functions in C++
6	2	Implementing Inline Functions
7	3	Implementing Friend Functions

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Implementing Operators in C++
9	3	Simple Programs using Functions and Recursion
10	4	Implementing Constructor and Destructor
11	4	Implementing Operator Overloading
12	4	Implementing Inheritance - Types of Inheritance Programs
13	5	Implement PUSH,POP operations of stack and queue using arrays
14	5	Conversion of infix to postfix using stack operations
15	5	Binary Tree Traversals - In order, Pre order and Post order using Recursion

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LESSON PLAN

Name of the Staff	**SAVITHAMARY A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**AMCS101T : ALLIED MATHEMATICS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Polynomial equations with real coefficients
2	1	Imaginary and irrational roots
3	1	Solving equations with related coefficients
4	1	Solving equations with related coefficients
5	2	Transformation of equation by increasing or decreasing roots by a constant
6	2	Transformation of equation by increasing or decreasing roots by a constant
7	2	Reciprocal equations

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Reciprocal equations
9	2	Newton's method to find a root approximately (without proof) .
10	3	Expansions of sin n ?, cos n ?, sinn ?,cosn?, tann?
11	3	Expansions of sin ?, cos ?, tan ? in terms of ?
12	3	Hyperbolic and inverse hyperbolic functions
13	3	Hyperbolic and inverse hyperbolic functions – L
14	3	Logarithms of complex numbers.
15	3	Logarithms of complex numbers.

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**RAMYA D**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**19AMCS22 : ALLIED MATHEMATICS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	3	Backs concepts of laplace transform
2	3	Laplace transform of standard functions
3	3	Properties of Laplace transform
4	3	Problems based on property 1 of L. P
5	3	Problems based on property 2 and 5 of L. P
6	3	Standard functions and properties of laplace transform.
7	3	Inverse laplace transform and properties.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Problems discuss about inverse Laplace transform.
9	5	Finite Differences - Introduction -interpolation -extrapolation.
10	5	Forward difference, Backward difference table.
11	5	Definition of operator forward and backward Del, operator E, inverse of E.
12	5	Newton's interpolation formulae.
13	5	Newton's forward interpolation formula.
14	5	Newton 's backward formula for interpolation .
15	5	Lagrange's interpolation formula for unequal intervals (without proof).

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LESSON PLAN

Name of the Staff	**ASHOK KUMAR K Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**2**
Subject	**LE202T : FUNCTIONAL ENGLISH - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Triphthongs.Making Requests and Responding to Requests.Thanking to Someone and Responding to Thanks.Prose How tobe a Doctor.
2	1	Precis Writing. Non-Finite Verbs.Strong and Weak Verbs. The Auxiliaries.
3	1	Triphthongs. Making Request Responding to Request
4	2	Prose:How to be Doctor Precis Writing
5	2	Non Finite Verbs Strong Verbs The Auxiliaries
6	2	Strong And WeakVerbs Auguries of Innocence Note Making Use of Wrong Preposition
7	3	Unnecessary Use of Article Relationship Between Spelling andSound. My Vision for India Report Writing Writing Punctuation And Capitals

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Sentence Transcription Daily Routines Poem: IF
9	4	The Merchant of Venice
10	4	Paragraph Writing Personal Details
11	5	Transcribing Short Passages Asking for Directions
12	5	Introduction of Kiran Bedi
14	5	The Uses of Prefixes and Suffixes
13	5	The Uses of Wrong Tenses
15	5	Revision

INTERNAL QUALITY ASSURANCE CELL

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LESSON PLAN

Name of the Staff	**Mr. B. Prabakaran**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**1**
Subject	**19AEC101 : English Communication - 1**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Inviting someone Expressing Gratitude
2	1	Complimenting and Congratulating Starting a conversation with a stranger
3	1	Asking for help Framing Questions and Answers
4	2	Apologising Making Request
5	2	Audio – Video lessons
6	3	Telephonic communication / Business
7	0	Conversational skill Reading Practice

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	I CIA
9	4	Building powerful vocabulary Coining related words
10	4	Acronym Mispronounced words
11	5	Extempore
12	5	Elocution
13	5	Description Narration Paragraph Writing
14	0	II CIA
15	0	REVISION

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important
2	1	Types of Group Discussion-
4	2	Interview Preparation- Common Interview Questions - Questions to Ask Your Employer- What Employers Want- Attitude
5	2	Effort - Body Language –Types of Interview: The Mock Interview- Phone Interviews
6	2	Behavioral Interviews- Closing the Interview-Thank You Notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work -Time and Distance
9	3	Tabulation – Bar Graphs – Pie Charts – Line Graphs.

Cycle	Unit	Topics to be covered / Activity to be carried out
10	4	Logical Reasoning (1): Analogies –Arrangement
11	4	-Causes and Effects
12	4	-Family Tree-Puzzles based questions.
13	5	Logical Reasoning (2): Sequence and Series -
14	5	Code based questions on letters of alphabet
15	5	Syllogism-Statement and Conclusion
3	1	techniques in Group Discussion-Tips for Group Discussion.
8	3	Heights and Distances

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LESSON PLAN

Name of the Staff	**VIDYA R Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic programs
2	1	1. Create a static web page which defines all text formatting tags of HTML in tabular format .
3	1	2. Create a static webpage using table tags of HTML .
4	2	. 3. Create a webpage using list tags of HTML. .
5	2	. 4. Create a webpage using style sheet. . .
6	2	. 5. Create a webpage using FORMS. .
7	3	. 6. Write a java Script code to generate Fibonacci series. .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	. 7. Write a java Script code to generate paybill. .
9	3	. 8. Write a java Script code to develop a simple Calculator. .
10	4	. 9. Write a java Script code using Math Functions. .
11	4	. 10. Write a java Script code using String Functions.
12	4	.Model practical I
13	5	..Model practical II
14	5	.Model practical III
15	5	Revision

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Porananuru agananuru
2	1	Kurunthogai nattrenai iengurunuru
3	1	Kalithogai parepadal
4	4	Ilakkeyavaralaru
5	4	Kezkanagunulgal
6	3	Therugural
7	3	Therugural

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Mozhitheren
9	5	Mozhitheren
10	4	Patthupattu
11	2	Nadunalvadai
12	2	Nadulalvadai
13	2	Serupanattupadai
14	2	Mathuraikanchi
15	2	Mullaipattu

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LESSON PLAN

Name of the Staff	**Dr.JOHNSON DURAI A.R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**AOSS401S : SOFT SKILLS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Group Discussion: Why Group Discussion is important- Types of Group Discussion.
2	1	Group Discussion: Techniques in Group Discussion
3	1	Group Discussion: Tips for Group Discussion.
4	2	Interview Preparation- Common Interview Questions - Questions to Ask Your Employer- What Employers Want.
5	2	Interview Preparation- Attitude & Effort - Body Language – Types of Interview: The Mock Interview- Phone Interviews.
6	2	Interview Preparation- Behavioural Interviews- Closing the Interview-Thank You Notes & Follow-Ups.
7	3	Quantitative Aptitude: Time and work -Time and Distance .

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Quantitative :Heights and Distances Data Interpretation
9	3	Quantitative Aptitude: Tabulation – Bar Graphs – Pie Charts – Line Graphs.
10	4	Logical Reasoning : Analogies –Arrangement
11	4	Logical Reasoning : Causes and Effects -Family Tree.
12	4	Logical Reasoning :Puzzles based questions.
13	5	Logical Reasoning : Sequence and Series.
14	5	Logical Reasoning : Code based questions on letters of alphabet
15	5	Logical Reasoning : Syllogism-Statement and Conclusion.

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LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction – Scope and limitations of Statistical methods – Classification of data
2	1	Tabulation of data – Diagrammatic and Graphical representation of data
3	1	Graphical determination of Percentiles and Quartiles.
4	2	Measures of locations
5	2	Measures of dispersion
6	2	Absolute and Relative measures
7	3	Measures of Skewness: Karl Pearson's

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Bowley's, Kelly's Coefficient of Skewness
9	3	Kurtosis based on Moments
10	4	Correlation: Scatter diagram, Karl Pearson's Coefficient of correlation
11	4	Spearman's rank correlation and concurrent deviation method
12	4	Regression analysis: Simple regression equations.
13	5	Curve fitting by the method of least squares: Straight line
14	5	Second degree equation
15	5	Power curve and Exponential curves

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LESSON PLAN

Name of the Staff	**VIJAYAKUMAR B**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCP401T : ALLIED PRACTICAL - STATISTICAL METHODS FOR COMPUTER APPLICATIONS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Construction of Univariate and Bivariate frequency distributions with samples of size not exceeding 50
2	1	Diagrammatic and Graphical representation of various statistical data and frequency distributions
3	1	Cumulative frequency curve and Lorenz curve
4	2	Computation of various Measures of Locations
5	2	Computation of various Measures of Dispersion
6	2	Skewness and Kurtosis based on moments

7	3	Curve fitting by the method of least squares, fitting of Straight line, fitting of Second degree polynomial

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	fitting of Power curve and fitting of Exponential curves. Computation of Karl Pearson's Correlation coefficients
9	3	Rank Correlation Coefficient. Simple regression equations
10	4	Fitting of Binomial, Poisson, Normal distributions (Area Method) and testing its goodness of fit
11	4	Exact tests based on t and F distributions with regard to Mean, Variance and Correlation Coefficient
12	4	Large sample tests: Based of Mean and Proportions. Chi-Square distribution: Test for independence of attributes
13	5	Design of Experiments: CRD
14	5	Design of Experiments: RBD
15	5	Design of Experiments: LSD

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LESSON PLAN

Name of the Staff	**CHRISTY BELINA F Dr**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LT404T : TAMIL - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Purananooru Ahananooru Kurunthohai
2	1	Katrina Inkurunooru Kalithhogai
3	1	Paripadal
4	3	Arivudaimai Natparaythal
5	3	Pulavinunukkam
6	4	Ettuththohai
7	4	Neethinoolgal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Seithi varaithal Surukkivaraithal
9	5	Nerkanal
10	2	Nedunalvadai
11	2	Nedunalvadai
12	2	Sirubanatruppadai
13	2	Maduraikanji
14	2	Mullaipattu
15	4	Pathuppattu

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CS407Q : INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Internet Services Types of accounts Media for internet
2	1	ISP TCP/IP and Connection software Dial-up Networking
3	1	setting up and Internet Connection Testing connection Disconnecting from the Internet
4	2	Contenders Issues in high-speed Connection Connecting via ISDN, ASDN and cable Modem
5	2	Intranets Components of an Intranet steps for creating Intranet
6	2	Maintenance Connecting LAN to Internet . Intranet versus Internet
7	3	Downloading E-Mails Signatures and Stationery Web based E-Mail E-mail task

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Outlook Express Sending and Receiving Files using Eudora Outlook Express and Pine
9	3	Multiple e-Mail Accounts Sending form Letters Formatting E-mail E-mail mailing List.
10	4	Introduction to HTML HTML Tags List
11	4	Creating Table Linking Documents
12	4	Frames in HTML Graphics to HTML Doc.
13	5	Introduction Advantage of JAVA Script JAVA Script Syntax Data type
14	5	Variable Array Operator and Expressions
15	5	Looping Constructor Function Dialog Box.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	4	Programs on Basic HTML Tags
2	4	Programs based on HTML Elements
3	4	Programs Based on HTML Attributes and Formatting Tags
4	4	Programs Based on HTML List Images and Linking documents
5	4	Design a simple web page in html using formatting tags to display your address at the center of the screen
6	4	Display you're like things and dislike things using Html list. Display an image in html with comments.
7	4	Design a web page using anchor tag to display about the important persons in India

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Use html Frames to divide the screen and load few web pages in a screen.
9	4	Use html Forms to design your Bio-data.
10	4	Design menus in Html.
11	5	Simple and basic programs on Java Script
12	5	Simple Programs on Looping Constructors and Operators in Java Script
13	5	Design simple Calculator using Java Scripts.
14	5	Use functions in Java script.
15	5	Use strings in Java Script.

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LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS305T : CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to Java Features of Java Data Types Arrays
2	1	Control Statements Classes Methods Objects
3	1	Overloading methods Overriding methods.
4	2	Packages Importing & Implementing Packages
5	2	Interfaces – Exception Handling.
6	2	Thread : Life Cycle of Thread Creation of Threads Multithreading
7	3	Applet life cycle creating a simple applets Loading and displaying images on applets.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	windows Fundamentals AWT controls
9	3	working with graphics layout managers
10	4	JDBC: JDBC Architecture Types of Drivers Connecting to a Database (MS Access)
11	4	SQL commands select, insert delete update.
12	4	NETWORKING: URL Inet Address TCP/IP Sockets UDP Sockets
13	5	RMI AND BEANS: Introduction to RMI RMI architecture
14	5	Example using RMI
15	5	Introduction to java Beans Properties of beans Simple example using bean.-Revision of Syllabus-Review of Past Year Semester QP

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Dr.MUTHUKUMARAN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and execution of Java programs Basic programs in Java
2	1	Logical Programs in Java Programs Based on I/O Statements
3	1	Finding area and Perimeter of a circle. Use Buffered Reader class Programs Based on Buffered Reader class
4	2	Implementing and importing packages
5	2	Implementing Interfaces-Arithmetic Manipulations.
6	2	Exception Handling. Threading & Multi threading
7	3	Simple Programs on Applets Programs on Passing HTML to Applets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Programs Using AWT Controls Create a database for storing and manipulating student information
9	3	Create a database for storing and manipulating student mark list using AWT.
10	4	Write a program to display the IP address of a given host machine
11	4	Implement an application for sending a string from one machine to another using TCP/IP.
12	4	Implement an application for sending a string from one machine to another using UDP Sockets
13	5	Write a program to send in two values to the server program and get back the result calculated using RMI.
14	5	Incorporating Graphics symbol onto Bean box.
15	5	Incorporating circle symbol onto Bean box- Model Practical Exam

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CS407Q : INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction-Internal Concepts: Internet Services – Types of accounts - Media for internet
2	1	ISP – TCP/IP and Connection software – Dial-up Networking – setting up and Internet Connection
3	1	Testing connection – Disconnecting from the Internet . Unit revision
4	2	Contenders: Issues in high-speed Connection -Connecting via ISDN,
5	2	Connecting via ASDN and cable Modem – Intranets – Components of an Intranet
6	2	steps for creating Intranet – Maintenance – Connecting LAN to Internet . Unit revision
7	3	E-mails: Downloading E-Mails – Signatures and Stationery – Web based E-Mail – E-mail task

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Outlook Express – Sending and Receiving Files using Eudora – Outlook Express and Pine – Multiple e-Mail Accounts
9	3	Sending form Letters – Formatting E-mail – E-mail mailing List. Unit revision
10	4	Internet Basics: Introduction to HTML – List
11	4	Creating Table – Linking Document Frames
12	4	Forms -code using forms-– Graphics to HTML Doc. Unit revision
13	5	Java Script:Introduction – Advantage of JAVA Script - JAVA Script Syntax
14	5	Data type – Variable – Array – Operator and Expressions
15	5	Looping Constructor – Function – Dialog Box. Unit revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS305T : CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Fundamentals of Java Language Basics of languages Introduction to Java Features of Java
2	1	Data Types Arrays Control Statements
3	1	Classes Objects Overloading method Overriding methods unit revision
4	2	Packages -System packages -User defined packages
5	2	Access protection -importing packages -interfaces - Implementing interfaces
6	2	Exception Handling Try,throw catch,throws finally Multhithreading unit revision
7	3	Applets : Applet life cycle – creating simple applets - Loading and displaying images on applets

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	- working with graphics AWT : -introduction to AWT -AWT controls
9	3	– windows Fundamentals - layout managers -Sample programs on AWT and applets unit revision
10	4	JDBC jdbc architecture -Connecting to a Database (MS Access)
11	4	– SQL commands -select, insert, delete, update. NETWORKING: Networking Basics-
12	4	URL - Inet Address – TCP/IP Sockets UDP Sockets unit revision
13	5	RMI : Introduction to RMI -RMI architecture - Example using RMI.
14	5	- Example using RMI. Java Beans Introduction to java beans
15	5	properties of java beans Code for java beans unit revision

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LESSON PLAN

Name of the Staff	**ANTONY JONES S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction and execution of java programs Basic programs in Java
2	1	Logical programming in java I/O operations
3	1	Area and perimeter of circle Arrays programs
4	2	packages User defined packages
5	2	Interfaces Exception Handling
6	2	Applet AWT programs
7	3	AWT programs

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	I CIA Exam
9	3	JDBC code
10	4	jdbc code
11	4	networking basics
12	4	model practical
13	5	TCP/IP program,socket program
14	5	RMI,Beans program
15	5	Model practical

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LESSON PLAN

Name of the Staff	**ANANTHI P**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LE303T : FUNCTIONAL ENGLISH - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Narration Welcoming the gathering Introducing a guest to the audience Thanking the gathering and organisers of the event
2	1	One act play: Refund by Fritz Karinthy Publicity literature
3	2	1. Quit India – Mahatma Gandhi (Prose) 2. Tryst with Destiny – Jawaharlal Nehru (Speech: Prose) II. Speaking : Giving One's Opinion on current National/ Social issues III. Reading : One – Act Play : The Bear – Anton Chekhov IV. Writing: Spottin...
4	2	III. Reading : One – Act Play : The Bear – Anton Chekhov IV. Writing: Spotting Errors
5	2	1. Gettysburg Address- Abraham Lincoln (Speech: Prose) 2. I have a Dream – Martin Luther King (Speech: Prose)
6	3	1. Preparing news items of local events and speaking about them 2. Sample News Item (Event)
7	3	III. Reading : One – Act Play : The Hour of Truth – Percival Wilde IV. Writing : E- Mail Writing

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	I CIA Examination
9	4	Inaugural Address by John F Kennedy Prepared to Die by Nelson Mandela Seminar presentation by students
10	4	Presentation skills Resume writing Seminar presentation by students
11	4	Sorrows of Childhood by Charles Chaplin Seminar presentation by students
12	5	Some useful Expressions Speech Writing Students seminar presentation
13	5	Marie Curie by Colin Mitchell Sarojini Naidu by Padmini Sengupta Minutes Writing
14	0	II CIA Examination
15	0	Distribution of CIA marks Revision Seminar presentation by students Distribution of internal marks

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LESSON PLAN

Name of the Staff	**LEEMA S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	1.1. Silapathigaram - Vazhakgurai kathai
2	1	1.2. Manimegalai - Aaputhiranodu manipallavam adaintha kaathai
3	4	4.1. Impernkappiyam
4	4	4.4. sozharkala kappiyangal 4.5. Incirukappiyam
5	2	2.1. Seevaga sinthamani
6	5	5.1. Banpalai vanoli nigazhci thoguppu 5.2. Vadikkaiyalar Sevai maiya Aluvalar
7	5	5.3. Suttrula vazhikkatti 5.4. Kadithangal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	5.5. Pothukatturai
9	2	2.2. kammparamayanam - Angathanthoothu padalam
10	2	2.2. kammparamayanam - Angathanthoothu padalam
11	3	3.1. Periyapuraanam - Kazharsinganayanar puranam
12	3	3.2. Irachaniyayathrigam - Siluvaipaadugal
13	3	3.3. Sirapuranam - Pulivasanithapadalam
14	4	4.2. Kirishthava kappiyangal
15	4	4.3. Islamiya kappiyangal

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS306S : FUNDAMENTALS OF ALGORITHMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Divide and Conquer: Introduction to Algorithm- Complexity analysis
2	1	Divide and Conquer - Strassen's Matrix Multiplication- Binary Search
3	1	Quick sort-Merge sort-Finding Max and Min.
4	2	Dynamic Programming:
5	2	General method-multistage graph
6	2	Traveling salesman problem
7	3	Basic Traversal and Search Technique

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Depth first search- Breadth first search
9	3	Back Tracking- Graph coloring.
10	4	Greedy method: General Method
11	4	Shortest path
12	4	0/1 Knapsack problem
13	5	Np Hard and Np Complete Problem
14	5	Basic concepts of Np
15	5	Hard and Np-Complete.

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LESSON PLAN

Name of the Staff	**SUDHA BABUKUMAR**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CSP303T : PRACTICAL - CORE & ADVANCED JAVA PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Basic Program
2	1	Arithmetic Operation
3	1	Applet viewer
4	2	Incorporate Graphics
5	2	TCP-IP
6	2	Implementing Interfaces-Arithmetic Manipulations.
7	3	Exception Handling

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Loading image onto applet
10	4	Write a program to display the IP address of a given host machine.
10	4	Implement an application for sending a string from one machine to another using TCP/IP
11	4	student Mark list Email
12	5	Using UDP
13	5	Write a program to send in two values to the server program and get back the result calculated using RMI
14	5	Incorporating circle symbol
15	5	Symbol onto Bean box

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**ASCS301Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - I**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Statistics Introduction – Scope and limitations of Statistical methods – Classification of data – Tabulation of data , introduction primary and secondary data , and discuss the various methods of collecting primary and secondary data.
2	1	Diagrammatic and Graphical representation of data ,simple bar diagram multiple bar diagram percentage bar diagram.
3	1	pie diagram,frequency curve, frequency polygon, Ogive curve, Histogram,
4	2	Measures of Central tendency: Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean.
5	2	Measures of Dispersion: define dispersion, uses of Dispersion, Range Definition , explain the formula, and related problems. Quartile Deviation definition, Q.D. related problems, Mean Deviation from mean and Mean deviation based on median related problem
6	2	Standard Deviation definition, explain the formula, and standard deviation related problems. Combined standard deviation and Cofficient ofe Variation related problems
7	3	Measures of Skewness: define skewness explain the types of skewness ,and measuring methods of skewness.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Karl Pearson's skewness related problems, and Bowley's co-efficient of skewness method related problems.
9	3	Kellys skewness related problems,Kurtosis related problems based on moments
10	4	Correlation-Definition, uses and their properties, explain the various types of correlation, Karl Pearson's coefficient of correlation explain the formula and related problems
11	4	Expalin Spearman's rank correlation coefficient concept and their formulas, Spearman's rank correlation coefficient RANK GIVEN method related problems, Spearman's rank correlation coefficient RANK NOT GIVEN method related problems
12	4	Spearman's rank correlation coefficient REPEATED RANK method related problems Concurrent deviation method related problems. explain the scatter diagram method , Regression analysis: definition expalin the Simple regression equations and related prob...
13	5	Curve fitting by the method of least squares, fitting of Straight line, general procedure and related problems.
14	5	fitting of Second degree polynomial general procedure and related problems. fitting of Power curve general procedure and related problems.
15	5	fitting of Exponential curves. general procedure and related problems.

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LESSON PLAN

Name of the Staff	**SARANRAJ R**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ASCS402Q : STATISTICAL METHODS FOR COMPUTER APPLICATIONS - II**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Probability: Basic definitions Axiomatic approach to Probability –Basic theorems on Probability , Addition theorem on probability and Addition theorem on probability related problems.
2	1	Conditional probability – Multiplication theorem of probability and Multiplication theorem related problems
3	1	Independent events , Pair wise Independent events (definition only). Baye's theorem and Bayes theorem related problems.
4	2	Discrete distributions: Binomial distribution definition , M.G.F. of binomial distribution , mean and variance of binomial distribution, Additive property of binomial distribution,and related problems
5	2	Poisson distribution definition , M.G.F. of Poisson distribution , mean and variance of Poisson distribution, Additive property of Poisson distribution,and related problems
6	2	Normal distribution definition , M.G.F. of Normal distribution , mean and variance of Normal distribution properties of Normal distribution,and related problems.
7	3	Concept of Random Variable and definition of Probability mass function, Probability density function and Distribution function. properties of random variable, random variable related problems.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Mathematical Expectation: Properties of expectations addition theorem of expectation , multiplication theorem of expectation, and related theorems and problems.
9	3	properties of variance and simple theorems Chebychev's inequality (only theorem).
10	4	Tests of Significance (small samples) basic definitions, test of significance of population mean based on t distribution, general procedure and related problems. test of significance of difference population means based on t distribution, general proced.
11	4	paired t-test general procedure and related problems. F test general procedure and related problems. correlation coefficient general procedure and related problems
12	4	Chi–Square distribution: Test for independence of attributes. Large sample test based on Mean and Proportions.
13	5	Analysis of Variance (ANOVA) definition , basic principles of ANOVA, uses of ANOVA , basic concepts of ANOVA,
14	5	One way classifications general procedure and related problems ,two way classifications general procedure and related problems, completely Randomized Design (CRD) general procedure and related problems.
15	5	Randomized Block design (RBD) general procedure and related problems , Latin Square design (LSD) general procedure and related problems

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**3**
Subject	**PSW911AS : RURAL AND TRIBAL COMMUNITY DEVELOPMENT**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Rural Community: Meaning, Characteristics. Assessment of Needs and Problems in the Community, Participatory Rural Appraisal – Meaning, Characteristics.
2	1	Principles, Tools, Steps and Limitations of PRA. Rural Organization and Rural Development, Rural Problems: Poverty, Illiteracy, Unemployment, Problems related to agriculture, Community Health
3	2	Community Development: Meaning, Objectives, Principles, and Models; methods; Earlier experiments in rural developments - Sriniketan Experiment and Marthandam Experiment, Rural Extension, Sustainable Development and Millennium Development Goals
4	2	Rural Development Administration and Panchayat Raj Institutions (PRI), 73rd Amendment and its Salient Features, Features of Tamil Nadu Panchayat Act 1994. Rural development Agencies: DRDA & BDO
5	3	Rural Development Programmes: Drought Prone Area Programme (DADP), Intensive Agriculture Area Programme (IAAP) and High Yield Variety Programme, MP's & MLA's Area development programme
6	3	IRDP, TRYSEM, SJGSY, and Employment Assurance Scheme. Minimum Needs Programme, ICDS, Five year Plans and Strategies for Rural Development. Community Participation
7	0	I CIA Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Tribes: Definition, Concept, Characteristics of the Tribal Community
9	4	Nomadic and De- Notified Tribes; Regional Distribution of Tribes and Nehru's Panchasheel Principles of Tribes
10	4	Social system, socio economic and cultural aspects, Status of women
11	4	Status of Children, Tribal leadership at the local, state and National levels.
12	5	Problems of Tribes: Child marriage , poverty, Il health, Illiteracy, Exploitation and atrocities on tribes
13	5	Tribal resettlement and rehabilitation, tribal movements, tribal revolt, tribal development programmes ad policies, need and importance of social work practice in tribal areas.
14	0	CIA Exam
15	0	Revision

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mrs. M. Perkish Salomina**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**3**
Subject	**PSW911B : HUMAN RESOURCE MANAGEMENT**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Human resource management Concept, Role, Evolution, Nature and Scope and importance as part of general management
2	1	Objective and classification of functions Challengingroleofhumanresourcesmanager Factor influencing HRM
3	2	Human resources planning concept and process Factors affecting human resource planning Recruitment policy and selection
4	2	Source of manpower supply employee outsourcing – Application Blank , interviewing techniques, different interviewing tools, Offer Letters, References - Induction and Placement; Job design, job analysis, Job descriptions, Job classification, Job evalu...
5	3	Employee Retention and Separation: Attrition and Retention – Concept, - Employee benefit plans. Disciplinary procedures – Domestic enquiry – Grievance Procedure SEMINAR PRESENTATION
6	3	Performance Management Systems; – Transfers and Promotions –Discharge, and Superannuation Dismissal – Retirement : Exit Interview, Retirement Benefits - VRS
7	3	Superannuation Dismissal revision of all the three units seminar presentation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	0	first CIA exams
9	4	Wages and Salary Administration: Definition, objectives, Process of Wage Determination assignment submission
10	4	Methods of wage payment, Principals of wages, Factors influencing Wage and salary administration, Fringe Benefits.
11	4	Concept of Wage and Salary – Wage Theories – Types of wages – wage differentials – wage regulators – Incentive Schemes.
12	5	Human Resource Development: Meaning, Definition, components and evolution of HRD Functions of HRD department. - HRD instruments and their implementations. Competency matrix. Need for Training - Training Need Analysis – Identifying training needs,
13	5	Training Areas – Organizing Training programmes for employees at various levels :Workers, Staff, Officers, Middle Level Managers and Executives – Evaluation of Training Programs – Employee Counseling : Rationale, Training, Counseling, Mechanism –...
14	0	Second CIA exams
15	0	Revision Of all the Units and Submission of Cumulative marks

INTERNAL QUALITY ASSURANCE CELL

St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**3**
Subject	**PSW911C : MEDICAL SOCIAL WORK**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Medical social work: concept, Definition, Need of medical social work; Role and functions of medical social worker. The meaning of health, hygiene, illness and handicap: medicine through the ages; changing concept of health: concept of patient as a pers.
2	1	Historical development in medical social work in the west, in India. Trends in medical social work practice in Chennai. Scope and Limitations of practice in medical social work
3	2	Health care models, Medical health prevention and promotion model
4	2	integrative model and development model; holistic approach to health: alternative system of health
5	3	Organization and administration of medical social work department in hospital. Present practice and equipment of medical social work in Government hospital, corporate and private, specific disease hospitals, specialized clinics, community health centers.
6	3	Present practice and equipment of medical social work in blood banks, eye banks, health camps Schools for the physically and mentally challenged, sheltered workshops, residential institutions for physically and mentally challenged
7	0	I CIA Examination

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Psychosocial Problems and Major communicable disease - TB
9	4	STD, AIDS, Polio. Diarrhoeal diseases
10	4	Malaria, typhoid, leprosy, leptospirosis. Major non communicable diseases - cancer, diabetes, hypertension, cardio disorders, neurological disorders, and asthma; Physically challenged Problems
11	4	Nutritional disorders, Occupational health problems, Women's health problems, Pediatric health problems and Geriatric health problems
12	5	Medical social work practices in different in facilitative settings. Outpatient unit, ICU, Maternity and Pediatric ward, STD and HIV clinic, Cardiology department, TB sanatorium and Cancer hospitals
13	5	Supportive services and networking for practice of medical social work teamwork in medical setting. Skills and techniques used in medical social work practice
14	0	II CIA Examination
15	0	Revision

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St. Joseph's College of Arts & Science (Autonomous), Cuddalore - 1

LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**4**
Subject	**PS1014A : PROJECT CYCLE MANAGEMENT**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Planning – Meaning, Process, Reasons, Usefulness, Types, Barriers, Importance. Development Cycle in Planning – Existing Development Cycle and Desired Development cycle.
2	1	Project Cycle – Meaning, Phases – Identification, Design, Implementation, Evaluation. Programme Evaluation and Review Technique (PERT)
3	1	Critical Path Method (CPM). Project Cycle Management – Meaning and the Importance. Concept Note – Meaning, Outline.
4	2	Project Identification – Need Assessment, Tools for Need Assessment – Listening, Interviewing
5	2	Focus Groups, Community Mapping, Priority Fixing. Capacity Assessment – Meaning, Types of Assets in Capacity Assessment
6	2	Assets and Capacity. Appreciative Inquiry – Discover, Dream, Design and Deliver
7	3	Project design – Meaning. Process of Project Designing – Stakeholder Analysis, Research including Problem Analysis, Log Frame

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Risk Analysis, Action Planning, Budgeting, Implementation – Meaning, Phases, Factors Affecting the Implementation
9	3	Monitoring Reviewing and Evaluation – Meaning, Purposes, Differences, Indicators, Reporting
10	4	Corporate Social Responsibility – Meaning, Importance, Theory and Models of CSR
11	4	Social Auditing – meaning, Uses, Principles, Stages – Social Book Keeping
12	4	Social Accounting and Social Auditing. Methodology and Process of Social Auditing
13	5	Advocacy – Meaning, Roles, Advocacy and Development Work
14	5	Advocacy approach to Development
15	5	Practice of Advocacy – Participation, Accountability, Legitimacy, Advocacy Cycle

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LESSON PLAN

Name of the Staff	**Mr. J. Durai Raj**	Academic Year	**2023-2024**
Department	**SOCIAL WORK**	Semester	**4**
Subject	**PSW1015C : COMMUNITY HEALTH**	Course	**SOCIAL WORK**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Concept of Health: Meaning, Definition, Historical Development, Factors Influencing Health-Social and Preventive medicine
2	1	Organization and Administration of Health Care at the Center, State, District, Municipality and Village Level; Health Planning in India
3	1	Health Committees; Five Year Plan in Relation to Health Care. Emerging need for Palliative & Geriatric Care
4	2	Community Health Care - Changing Concepts; Primary Health Care for All; Health Status and Health Problems
5	2	Health Care Systems - Primary Health Centre; Private Health Systems Indigenous Systems
6	2	Voluntary Health Systems; Role of Social Worker in Community Health
7	3	ESI Act. 1948, Amendment 1975, MTP Act. 1971

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Consumer Protection act. 1986. PWD & Equal opportunities Act. 1995
9	3	Reproductive health Act, Narcotics and Substance Act
10	4	Community Health care needs Assessment: Assessing community Health needs-Moralizing core groups and Community Participation
11	4	Training of multipurpose health workers in community health Programs. Health Policies
12	4	National Health Policy. 1983, Population Problems and control. Environment Protection Act
13	5	Health Programmes at the National level: National control of blind program, minimum need program, welfare program for physically challenged
14	5	National health Progrmmes: family welfare, maternal and child health, ICDS, schools health program UIP
15	5	NEMP, NLEP, Diarrhoea Disease control program

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**2**
Subject	**EBT201 : BASIC TAMIL**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aleya muraiyel thamil katrel
2	1	Seru thoder
3	1	Oraiyadel
4	2	Ezuthuganen vagaikal
5	2	Vannenam mannenam edaienam
6	3	Olivarupadu arethel
7	3	Olivarupattai arenthu porul sollutal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Sollu vakai
9	4	Payersol venaisol
10	4	Todarmozhi arethel
11	5	Udalorupu vagaikal
12	5	Porul mattam tharum udal oruppugal
13	5	Paraivai pargal venangu payergal
14	5	Malargal
15	5	Neeram engal

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LESSON PLAN

Name of the Staff	**ANNAMMAL A Dr.**	Academic Year	**2023-2024**
Department	**Tamil**	Semester	**2**
Subject	**EBT201 : BASIC TAMIL**	Course	**Tamil**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Aleya muraiyel thamil katrel
2	1	Seru thoder
3	1	Oraiyadel
4	2	Ezuthuganen vagaikal
5	2	Vannenam mannenam edaienam
6	3	Olivarupadu arethel
7	3	Olivarupattai arenthu porul sollutal

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Sollu vakai
9	4	Payersol venaisol
10	4	Todarmozhi arethel
11	5	Udalorupu vagaikal
12	5	Porul mattam tharum udal oruppugal
13	5	Paraivai pargal venangu payergal
14	5	Malargal
15	5	Neeram engal

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LESSON PLAN

Name of the Staff	**MADELINE A**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**LT303T : TAMIL - III**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Silappathikaram - vazhakkurai kathai
2	1	Manimegalai - Aaputhiranodu mani pallavam adaintha kathai
3	4	Impem kappiyankal
4	4	Insiru kappiyankal, solarkala kappiyankal
5	2	Seevaga sinthamani- Namagal elambakam
6	5	Panpalai vanoli nigazhchi thoguppu, vadikkaiyalar sevai maiya aluvalar
7	5	Sutrula vazhikatti, kaditham

Cycle	Unit	Topics to be covered / Activity to be carried out
8	5	Pothu katturai
9	2	Kamba ramayanam -Angathan thoothu padalam
10	3	Periya puranam - kazhar singa nayanar puranam
11	3	Ratsinaiya yathrigam - siluvai padukal
12	3	Serapuranam - puli vasinitha puranam
13	4	Kristhuva kappiyankal - mudhal paguthi
14	4	Islamiya kappiyankal
15	4	Kristhuva kappiyankal - irandam paguthi

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**3**
Subject	**CS306S : FUNDAMENTALS OF ALGORITHMS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	2	Dynamic Programming - Introduction
2	2	The general method of dynamic programming
3	2	Traveling salesman method
4	2	Problems in Traveling salesman method
5	2	Multistage Graph - Definition
6	2	Problems in Multistage Graph
7	2	Forward approach in Multistage graph

Cycle	Unit	Topics to be covered / Activity to be carried out
8	2	Backward approach in Multistage graph
9	4	Depth First Search
10	4	Backtracking concepts
11	4	Back Tracking - 8 - queens Problem
12	4	Iterative Backtracking
13	4	Recursive Backtracking - Graph Coloring
14	2	Revision on Unit II
15	4	Revision on Unit IV

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LESSON PLAN

Name of the Staff	**ALICE ILAMATHY ALEXIS**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**ECS408A : COMPUTER GRAPHICS**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Introduction to computer Graphics: Video display devices – Raster scan system
2	1	Random Scan System – Interactive input Devices – Graphics software
3	1	Output primitives – line drawing algorithms – Line function – circle Generating algorithms.
4	2	Output Primitives: Attributes of output Primitives – line attributes – Color and Grayscale style – Area filing algorithms
5	2	Character attributes Inquiry functions – Two dimensional transformations – Basic transformation
6	2	Composite transformation – Matrix representation –Other transformations.
7	3	Two dimensional viewing: Two – dimensional viewing – window – to view port co-ordinate transformation

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Clipping algorithms – interactive input methods
9	3	Logical classification of input devices – interactive picture construction methods.
10	4	Three dimensional viewing :Three – dimensional concepts
11	4	Three dimensional display methods – parallel Projection – Perspective projection
12	4	Depth Cueing – Visible line and surface identification.
13	5	Three dimensional Transformations: Three dimensional transformations - Three dimensional viewing
14	5	Projection – Viewing transformations
15	5	Depth buffer(Z-Buffer) method – A-buffer method - implementation of viewing operations.

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LESSON PLAN

Name of the Staff	**ANTONY DANIEL REX J**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**CSP404Q : PRACTICAL - INTERNET PROGRAMMING**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	basic html tags
2	1	text tags
3	1	color tags
4	2	effective tags
5	2	Create a static web page which defines all text formatting tags of HTML in tabular format
6	2	Create a static webpage using table tags of HTML
7	3	Create webpage using list tags of HTML.

Cycle	Unit	Topics to be covered / Activity to be carried out
8	3	Apply style sheet in Web page
9	3	Create webpage using FORMS.
10	4	Script code for n numbers of Fibonacci series.
11	4	Script code for employee salary calculation.
12	4	Script code for simple Calculator
13	5	Script Code using Math Functions.
14	5	Script Code using String Functions
15	5	Create webpage using FORMS. in a website

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LESSON PLAN

Name of the Staff	**SUNNY JOSEPH SEBASTIN S**	Academic Year	**2023-2024**
Department	**Computer Science**	Semester	**4**
Subject	**LE404T : FUNCTIONAL ENGLISH - IV**	Course	**Computer Science**

Cycle	Unit	Topics to be covered / Activity to be carried out
1	1	Mock - Interview/ Actual Interview Facing an Interview Tele interview
2	1	Julius Caesar- Shakespeare Description
3	2	Seminar skills Macbeth - Shakespeare
4	2	Words often confused Idioms and phrases
5	3	Homonyms and similar words Tele - conference Handling customers or clients
6	3	Henry IV - Shakespeare The use of graphic
7	0	I CIA Exam

Cycle	Unit	Topics to be covered / Activity to be carried out
8	4	Homophones Booking Hotel Accommodation Making small talk and telling stories
9	4	As you like it - Shakespeare Negotiation
10	5	Group discussion Making appointments
11	5	Hamlet - Shakespeare Writing review of books
12	0	Assignment Class Test
13	0	Seminar Group discussion
14	0	II CIA Exam
15	0	Revision